

Hui, S.
69/590447

09/590447

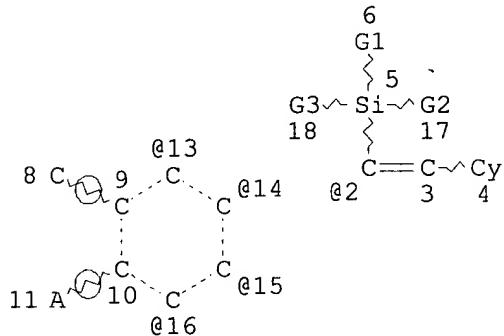
L1 FILE 'REGISTRY' ENTERED AT 11:49:17 ON 23 MAY 2002
STR

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G1
'
Si 5
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Cy~^C=C~^Cy
1 2 3 4

VAR G1=AK/CB
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS PCY AT 1
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE
L3 67 SEA FILE=REGISTRY SSS FUL L1
L5 STR



VAR G1=AK/CB
VAR G2=AK/CB
VAR G3=AK/CB
VPA 2-13/14/15/16 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
L6 26 SEA FILE=REGISTRY SUB=L3 SSS FUL L5

100.0% PROCESSED 34 ITERATIONS
SEARCH TIME: 00.00.01

26 ANSWERS

L7 (FILE 'CAPLUS' ENTERED AT 11:50:25 ON 23 MAY 2002)
3 S L6 OR L6/D

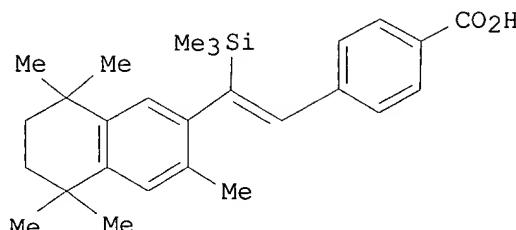
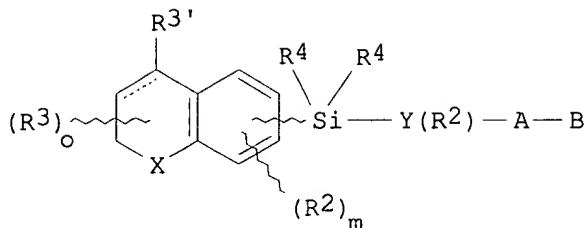
09/590447

Date, not good

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:900648 CAPLUS
DOCUMENT NUMBER: 134:42260
TITLE: Organosilyl compounds having nuclear hormone
receptor modulating activity
INVENTOR(S): Beard, Richard L.; Garst, Michael; Chandraratna,
Roshantha A.
PATENT ASSIGNEE(S): Allergan Sales, Inc., USA
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000077011	A1	20001221	WO 2000-US15972	20000609
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1185539	A1	20020313	EP 2000-941321	20000609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000011741	A	20020319	BR 2000-11741	20000609
PRIORITY APPLN. INFO.:			US 1999-138731P	P 19990611
			WO 2000-US15972	W 20000609

OTHER SOURCE(S): MARPAT 134:42260
GI



AB The prepn. of silicon-contg. org. compds., I (X = O, S, NR', R' = C1-6 alkyl; R2 = H, C1-6 alkyl, F, Cl, Br, I, CF3, OH, SH, C1-12 alkoxy, alkylthio, etc.; R3 = H, C1-6 alkyl, F; m = 0-3; o = 0-4; R3' = H, C1-6 alkyl, F, heteroaryl with 1-3 hetero atoms, etc.; R4 = C1-8 alkyl, Ph, etc.; Y = Ph, naphthyl, heteroaryl, etc.; A = (CH2)q, q = C3-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl, C2-6 alkynyl, etc.; B = H, CO2H, NO2, P(O)(OH)2, etc.), useful as modulators of mammalian nuclear hormone receptors, particularly the retinoid receptors and the farnesoid receptors, is described. Thus, silylation of 4-BrC6H4CH2OH with Ph2(t-Bu)SiCl in CH2Cl2 in the presence of Et3N gave 4-BrC6H4CH2OSiPh2Bu-t which on coupling with Me3SiC.tplbond.CH gave 4-Me3SiC.tplbond.CC6H4CH2OSiPh2Bu-t. Borane mediated coupling of 4-Me3SiC.tplbond.CC6H4CH2OSiPh2Bu-t with 2-bromo-3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydronaphthalene followed by MnO2 oxidn. and hydrolysis gave title compd. II.

IT 312738-41-3P 312738-52-6P 312738-57-1P
 312738-65-1P 312738-69-5P 312738-79-7P
 312738-82-2P 312738-86-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

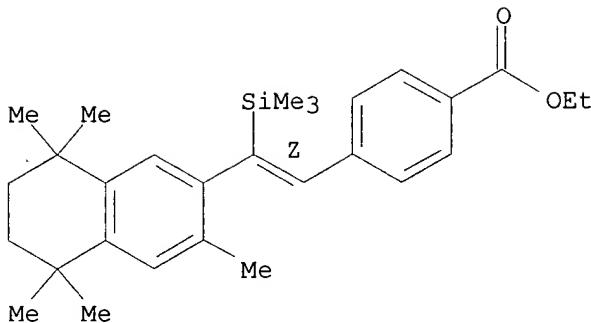
(prepn. and hydrolysis of)

RN 312738-41-3 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

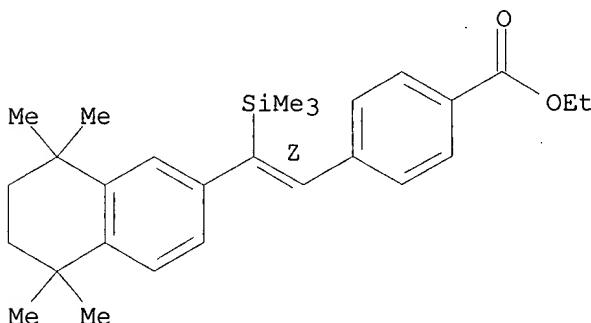
09/590447



RN 312738-52-6 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

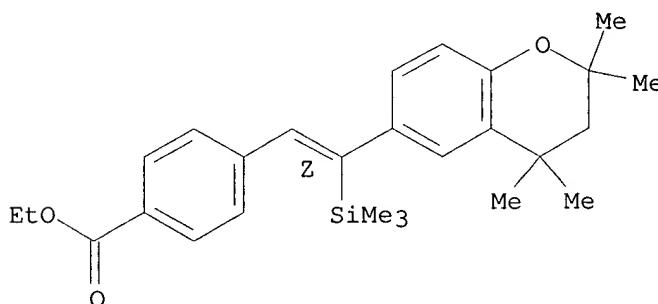
Double bond geometry as shown.



RN 312738-57-1 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(3,4-dihydro-2,2,4,4-tetramethyl-2H-1-benzopyran-6-yl)-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



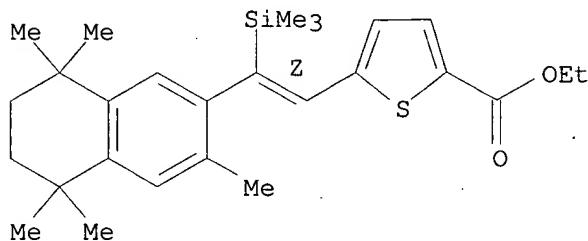
RN 312738-65-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8,8-t-

09/590447

pentamethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]-, ethyl ester
(9CI) (CA INDEX NAME)

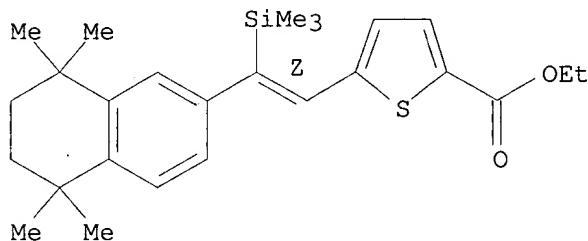
Double bond geometry as shown.



RN 312738-69-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]-, ethyl ester
(9CI) (CA INDEX NAME)

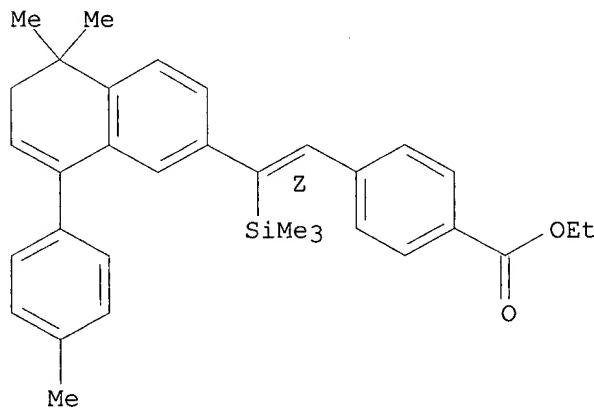
Double bond geometry as shown.



RN 312738-79-7 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-[5,6-dihydro-5,5-dimethyl-8-(4-methylphenyl)-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

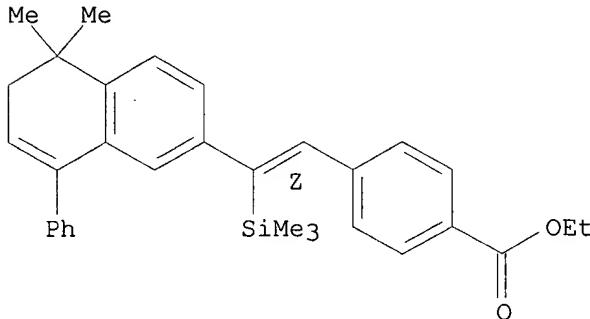


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RN 312738-82-2 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6-dihydro-5,5-dimethyl-8-phenyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

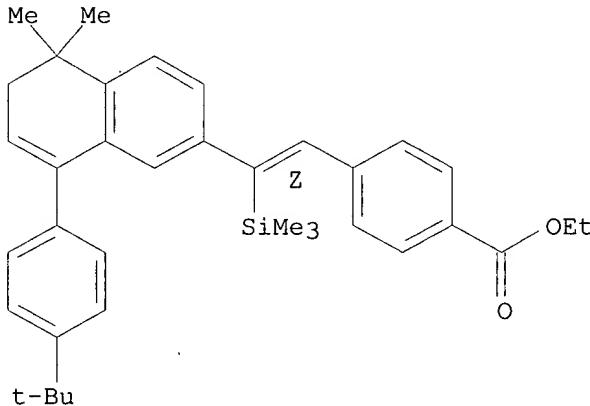
Double bond geometry as shown.



RN 312738-86-6 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-[8-[4-(1,1-dimethylethyl)phenyl]-5,6-dihydro-5,5-dimethyl-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 312738-36-6P 312738-49-1P 312738-64-0P

312738-68-4P 312738-77-5P 312738-81-1P

312738-85-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)

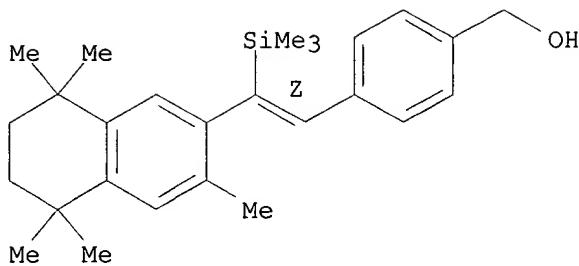
(prepn. and oxidn. of)

RN 312738-36-6 CAPLUS

CN Benzenemethanol, 4-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

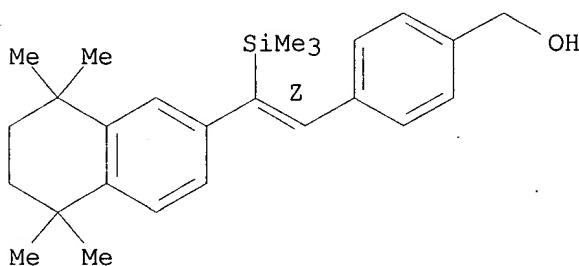
09/590447



RN 312738-49-1 CAPLUS

CN Benzenemethanol, 4-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

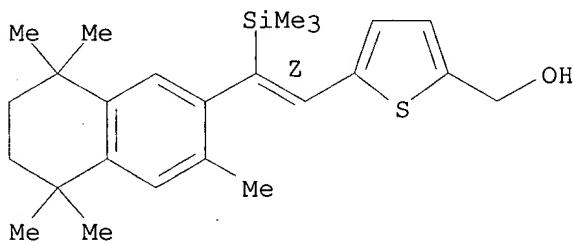
Double bond geometry as shown.



RN 312738-64-0 CAPLUS

CN 2-Thiophenemethanol, 5-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

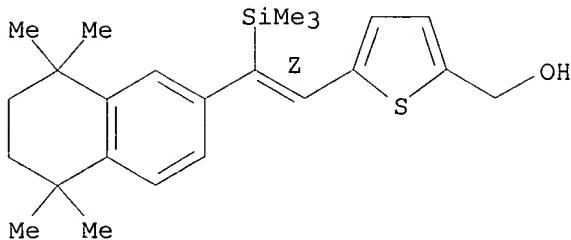
Double bond geometry as shown.



RN 312738-68-4 CAPLUS

CN 2-Thiophenemethanol, 5-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

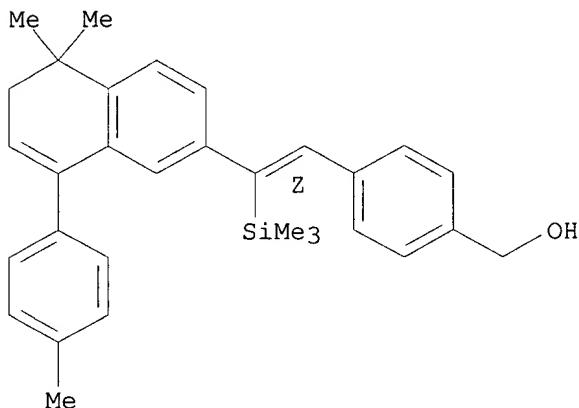
Double bond geometry as shown.



RN 312738-77-5 CAPLUS

CN Benzenemethanol, 4-[(1Z)-2-[5,6-dihydro-5,5-dimethyl-8-(4-methylphenyl)-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

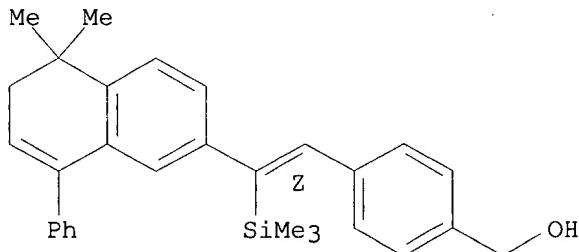
Double bond geometry as shown.



RN 312738-81-1 CAPLUS

CN Benzenemethanol, 4-[(1Z)-2-(5,6-dihydro-5,5-dimethyl-8-phenyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

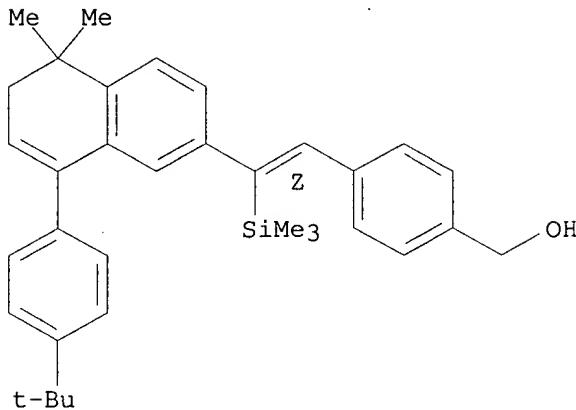


RN 312738-85-5 CAPLUS

CN Benzenemethanol, 4-[(1Z)-2-[8-[4-(1,1-dimethylethyl)phenyl]-5,6-dihydro-5,5-dimethyl-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

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Double bond geometry as shown.



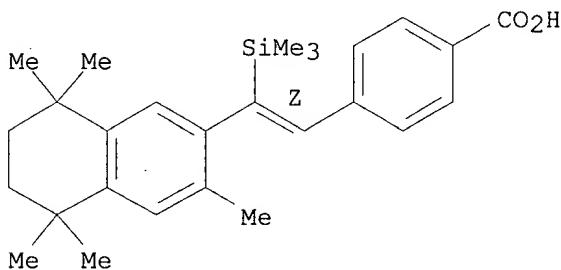
IT 312738-45-7P 312738-55-9P 312738-58-2P
312738-67-3P 312738-70-8P 312738-80-0P
312738-84-4P 312738-87-7P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of organosilyl compds. having nuclear hormone receptor modulating activity)

RN 312738-45-7 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

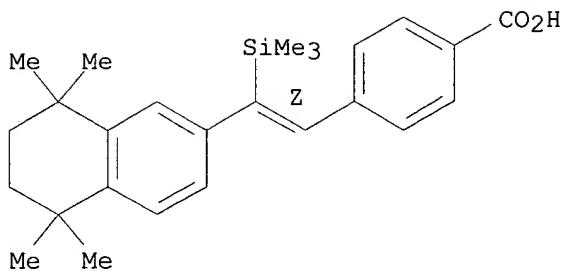
Double bond geometry as shown.



RN 312738-55-9 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

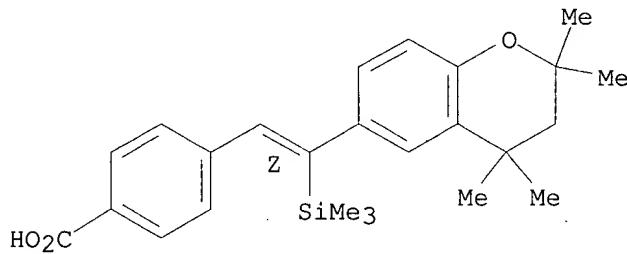
Double bond geometry as shown.



RN 312738-58-2 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(3,4-dihydro-2,2,4,4-tetramethyl-2H-1-benzopyran-6-yl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

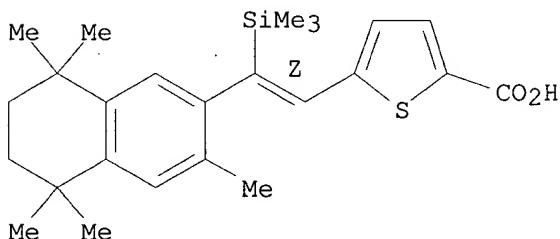
Double bond geometry as shown.



RN 312738-67-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8-pentamethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

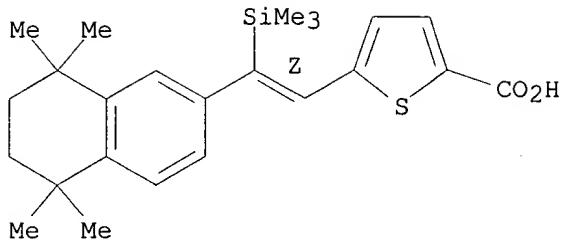


RN 312738-70-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

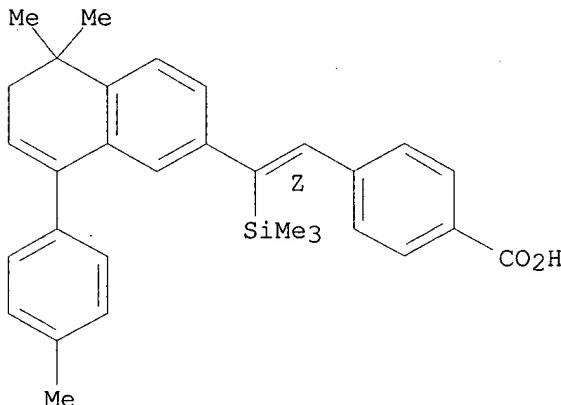
09/590447



RN 312738-80-0 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-[5,6-dihydro-5,5-dimethyl-8-(4-methylphenyl)-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

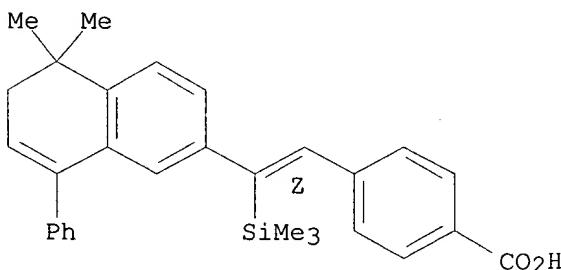
Double bond geometry as shown.



RN 312738-84-4 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6-dihydro-5,5-dimethyl-8-phenyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

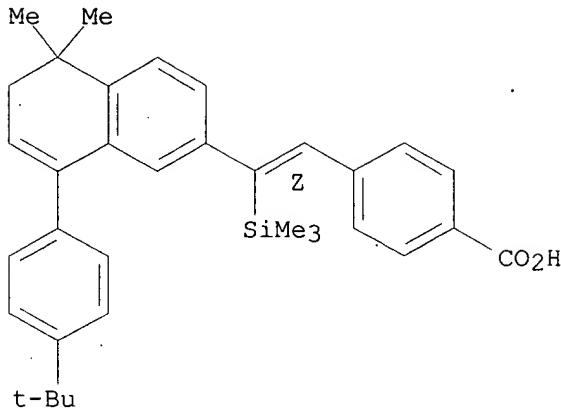


RN 312738-87-7 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-[8-[4-(1,1-dimethylethyl)phenyl]-5,6-dihydro-5,5-dimethyl-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

09/590447

Double bond geometry as shown.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:900465 CAPLUS
DOCUMENT NUMBER: 134:37038
TITLE: Methods for modulating FXR receptor activity
INVENTOR(S): Forman, Barry M.; Beard, Richard L.; Gyhandraratna, Roshantha A.
PATENT ASSIGNEE(S): Allergan Sales, Inc., USA
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

Bad date

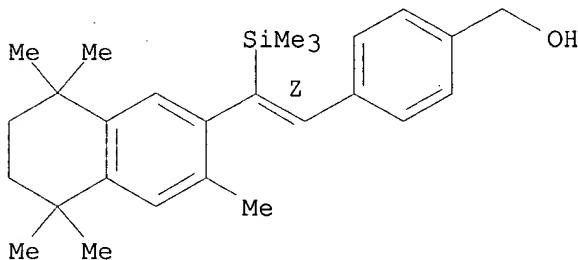
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 20000076523	A1	20001221	WO 2000-US15912	20000609
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1185277	A1	20020313	EP 2000-941312	20000609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRIORITY APPLN. INFO.:			US 1999-138731P	P 19990611
			WO 2000-US15912	W 20000609

OTHER SOURCE(S): MARPAT 134:37038
AB Methods for modulating the activity of the mammalian FXR (farnesoid X-activated receptor). The methods include methods of treating a hyper- or hypocholesterolemic mammal comprising contacting the

09/590447

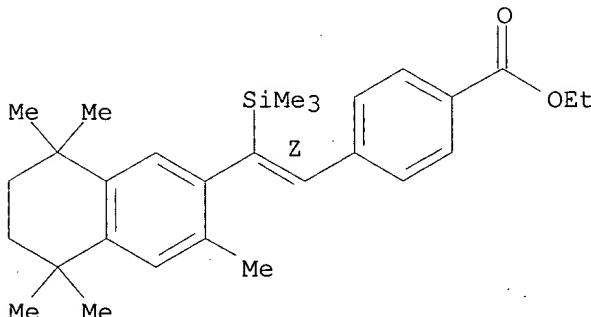
mammal with synthetic compds. having FXR receptor activity.
IT 312738-36-6P 312738-41-3P 312738-49-1P
312738-52-6P 312738-57-1P 312738-64-0P
312738-65-1P 312738-68-4P 312738-69-5P
312738-77-5P 312738-79-7P 312738-81-1P
312738-82-2P 312738-85-5P 312738-86-6P
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); RCT (Reactant); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
(methods for modulating FXR (farnesoid X-activated) receptor
activity and treatment of hyper- and hypocholesterolemia in
relation to role of RXR receptor)
RN 312738-36-6 CAPLUS
CN Benzenemethanol, 4-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8-pentamethyl-
2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312738-41-3 CAPLUS
CN Benzoic acid, 4-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8-pentamethyl-2-
naphthalenyl)-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA
INDEX NAME)

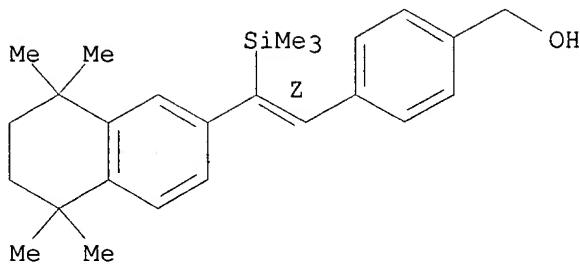
Double bond geometry as shown.



RN 312738-49-1 CAPLUS
CN Benzenemethanol, 4-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-
naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

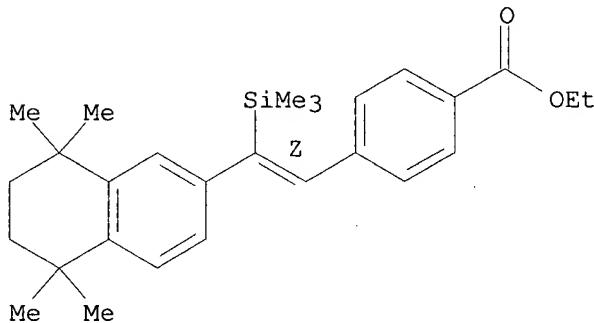
09/590447



RN 312738-52-6 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

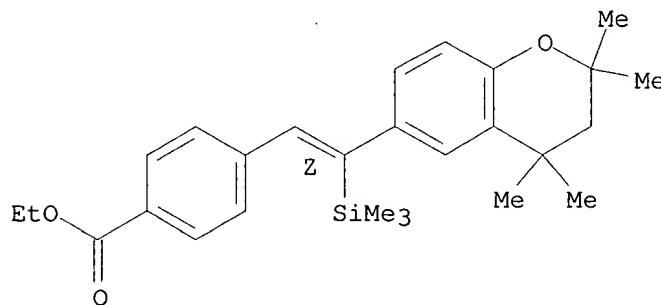
Double bond geometry as shown.



RN 312738-57-1 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(3,4-dihydro-2,2,4,4-tetramethyl-2H-1-benzopyran-6-yl)-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

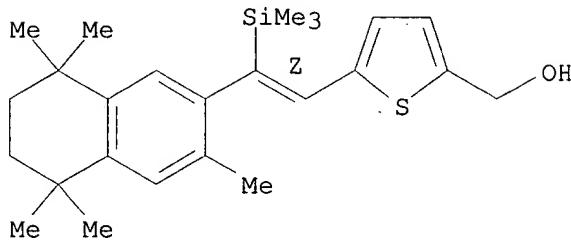


RN 312738-64-0 CAPLUS

CN 2-Thiophenemethanol, 5-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

09/590447

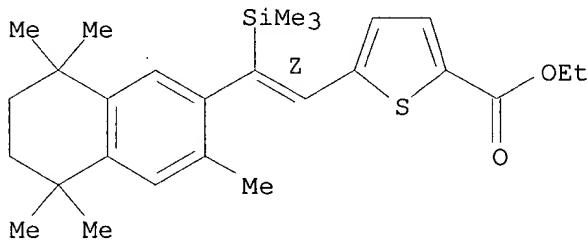
Double bond geometry as shown.



RN 312738-65-1 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8-pentamethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

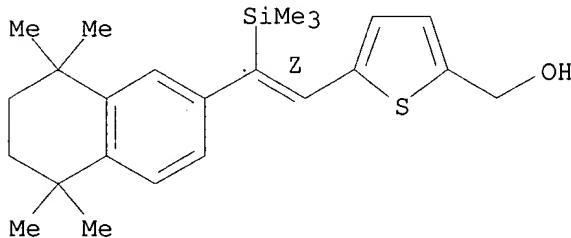
Double bond geometry as shown.



RN 312738-68-4 CAPLUS

CN 2-Thiophenemethanol, 5-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

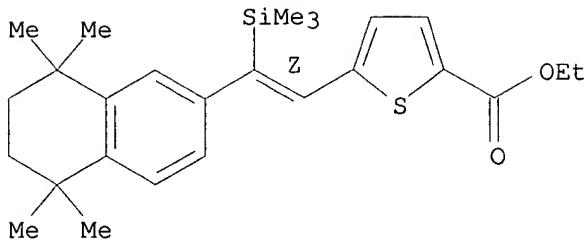


RN 312738-69-5 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

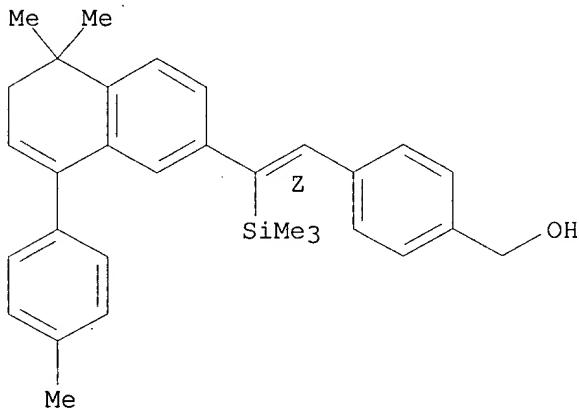
09/590447



RN 312738-77-5 CAPLUS

CN Benzenemethanol, 4-[(1Z)-2-[5,6-dihydro-5,5-dimethyl-8-(4-methylphenyl)-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

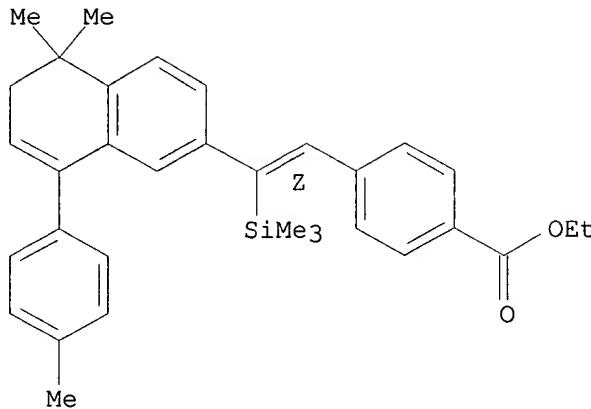


RN 312738-79-7 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-[5,6-dihydro-5,5-dimethyl-8-(4-methylphenyl)-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

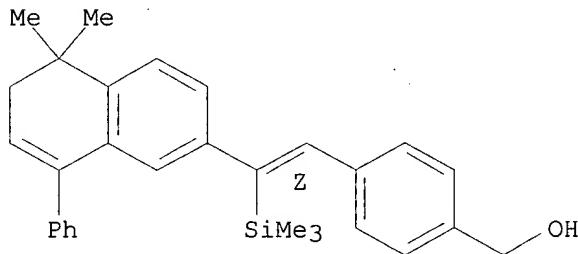
09/590447



RN 312738-81-1 CAPLUS

CN Benzenemethanol, 4-[(1Z)-2-(5,6-dihydro-5,5-dimethyl-8-phenyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

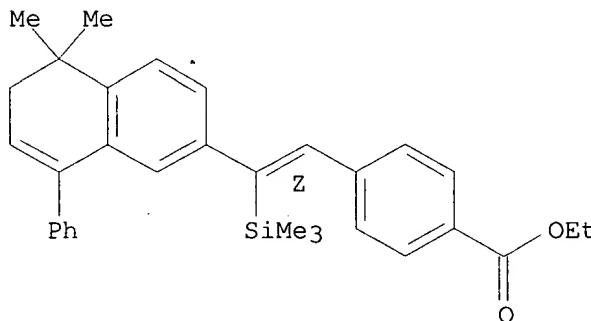
Double bond geometry as shown.



RN 312738-82-2 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6-dihydro-5,5-dimethyl-8-phenyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



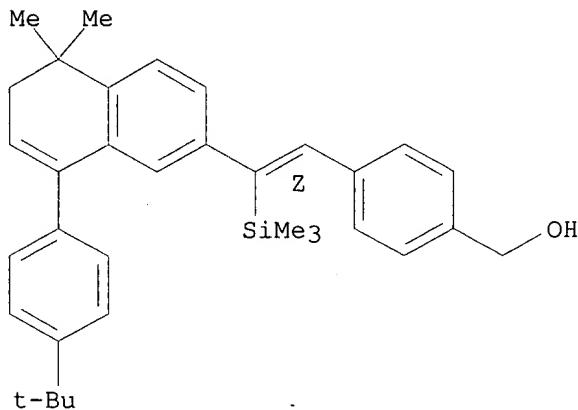
RN 312738-85-5 CAPLUS

CN Benzenemethanol, 4-[(1Z)-2-[8-[4-(1,1-dimethylethyl)phenyl]-5,6-

09/590447

dihydro-5,5-dimethyl-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]-
(9CI) (CA INDEX NAME)

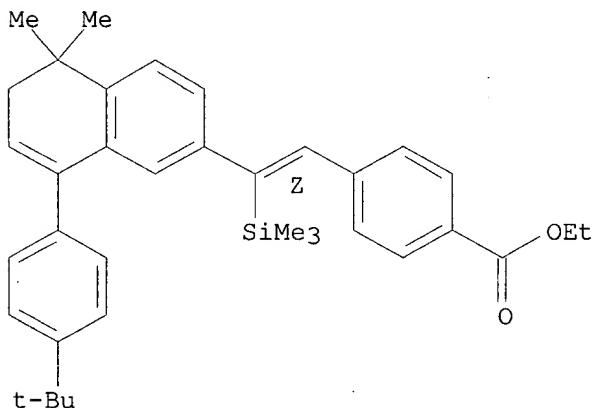
Double bond geometry as shown.



RN 312738-86-6 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-[8-[4-(1,1-dimethylethyl)phenyl]-5,6-dihydro-5,5-dimethyl-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 312738-45-7P 312738-55-9P 312738-58-2P

312738-67-3P 312738-70-8P 312738-80-0P

312738-84-4P 312738-87-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)

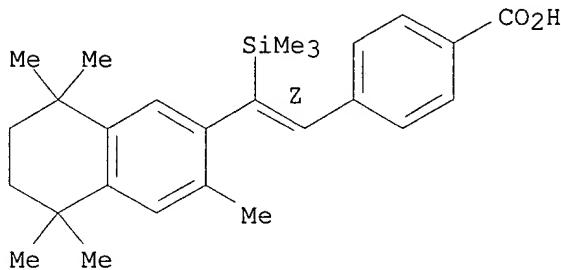
RN 312738-45-7 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8-pentamethyl-2-

09/590447

naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

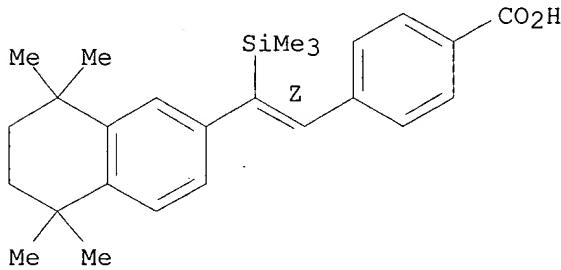
Double bond geometry as shown.



RN 312738-55-9 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

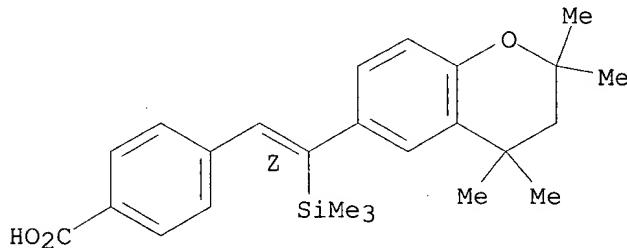
Double bond geometry as shown.



RN 312738-58-2 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(3,4-dihydro-2,2,4,4-tetramethyl-2H-1-benzopyran-6-yl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

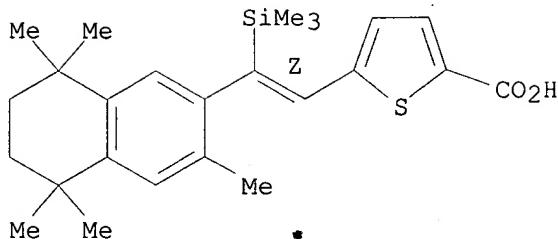


RN 312738-67-3 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-[(1Z)-2-(5,6,7,8-tetrahydro-3,5,5,8-pentamethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

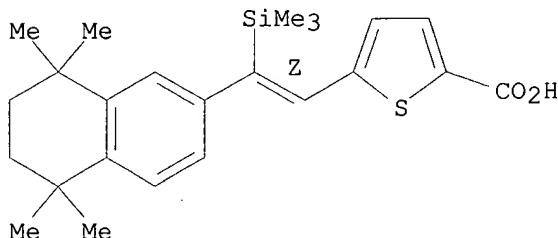
09/590447



RN 312738-70-8 CAPLUS

CN 2-Thiophenecarboxylic acid, 5-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

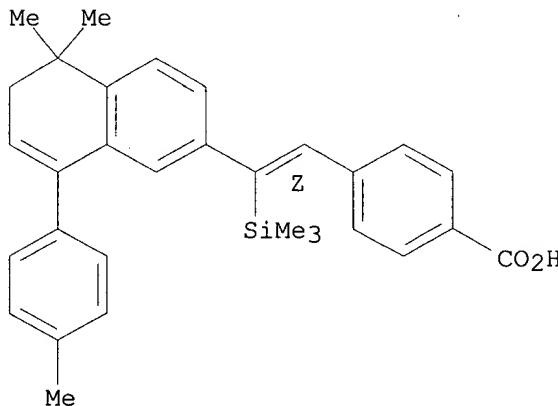
Double bond geometry as shown.



RN 312738-80-0 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-[5,6-dihydro-5,5-dimethyl-8-(4-methylphenyl)-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

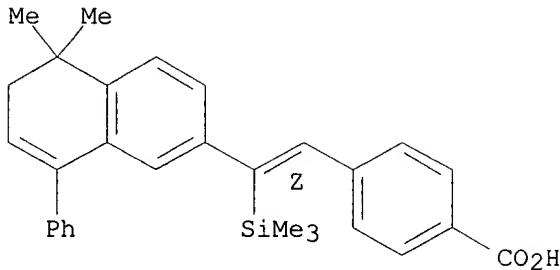
Double bond geometry as shown.



RN 312738-84-4 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-(5,6-dihydro-5,5-dimethyl-8-phenyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

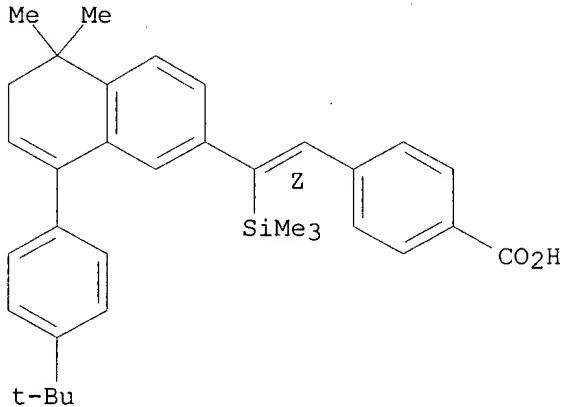
Double bond geometry as shown.



RN 312738-87-7 CAPLUS

CN Benzoic acid, 4-[(1Z)-2-[8-[4-(1,1-dimethylethyl)phenyl]-5,6-dihydro-5,5-dimethyl-2-naphthalenyl]-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



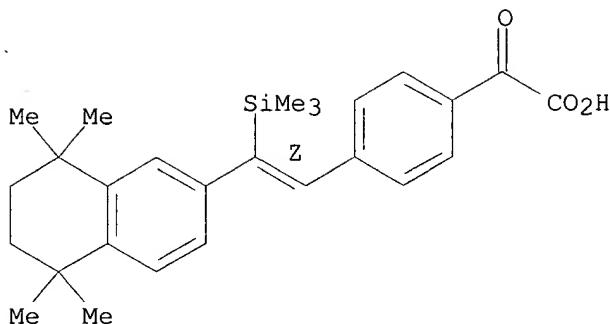
IT 313268-94-9, AGN 10

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)

RN 313268-94-9 CAPLUS

CN Benzeneacetic acid, .alpha.-oxo-4-[(1Z)-2-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)-2-(trimethylsilyl)ethenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1996:455381 CAPLUS
 DOCUMENT NUMBER: 125:114330
 TITLE: Preparation of highly unsaturated carbonyl compounds by addition reaction of .alpha.,.beta.-unsaturated carbonyl compounds with acetylenes
 INVENTOR(S): Murai, Shinji; Chatani, Naoto; Kakiuchi, Fumitoshi
 PATENT ASSIGNEE(S): Shingijutsu Kaihatsu Jigyodan, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08127551	A2	19960521	JP 1994-266565	19941031

OTHER SOURCE(S): CASREACT 125:114330; MARPAT 125:114330

AB Compds. having COC:CC:CH group are prep'd. by treatment of compds. having COC:CH group with acetylenic C.tplbond.C compds. in the presence of transition metal catalysts. .alpha.-Tetralone was refluxed with PrC.tplbond.CPr and RuH2(CO)(PPh3)3 in MePh for 4 h to give 72% 8-(4-octen-5-yl)-.alpha.-tetralone with E/Z = 16/1 ratio.

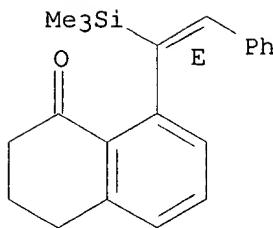
IT 179039-10-2P 179039-11-3P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of highly unsatd. carbonyl compds. from .alpha.,.beta.-unsatd. carbonyl compds. with acetylenes)

RN 179039-10-2 CAPLUS

CN 1(2H)-Naphthalenone, 3,4-dihydro-8-[2-phenyl-1-(trimethylsilyl)ethenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

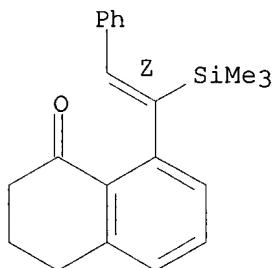
09/590447



RN 179039-11-3 CAPLUS

CN 1(2H)-Naphthalenone, 3,4-dihydro-8-[2-phenyl-1-(trimethylsilyl)ethenyl]-, (Z)- (9CI) (CA INDEX NAME)

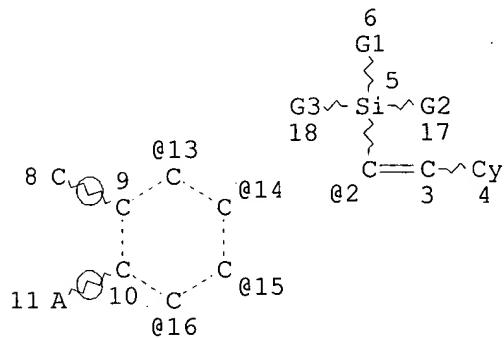
Double bond geometry as shown.



L8 FILE 'CAOED' ENTERED AT 11:52:03 ON 23 MAY 2002
0 S L6

L9 FILE 'USPATFULL' ENTERED AT 11:52:09 ON 23 MAY 2002
0 S L6

L5 (FILE 'MARPAT' ENTERED AT 11:52:21 ON 23 MAY 2002)
STR



VAR G1=AK/CB
VAR G2=AK/CB
VAR G3=AK/CB
VPA 2-13/14/15/16 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

09/590447

GRAPH ATTRIBUTES:

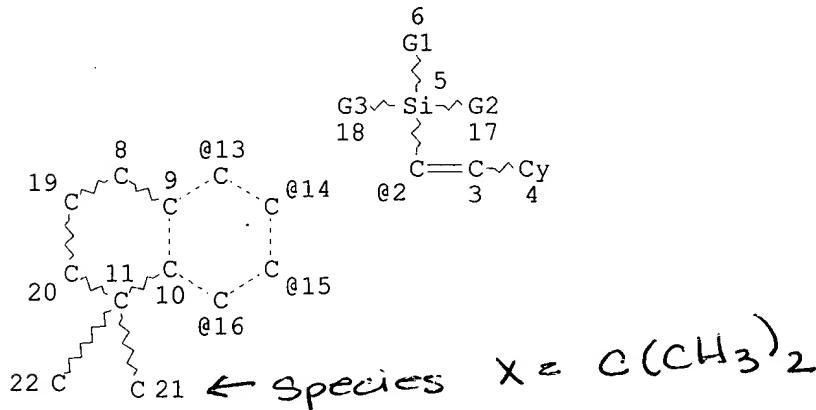
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

ATTRIBUTES SPECIFIED AT SEARCH-TIME:

MLEVEL IS CLASS ON RING NODES AND RING GROUPS
MLEVEL IS CLASS ON CHAIN NODES AND CHAIN GROUPS
ECLEVEL IS LIM ON ALL NODES
ALL RING(S) ARE ISOLATED

L11 136 SEA FILE=MARPAT SSS FUL L5 (MODIFIED ATTRIBUTES)
L12 STR



VAR G1=AK/CB
VAR G2=AK/CB
VAR G3=AK/CB

VPA 2-13/14/15/16 U

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 19

STEREO ATTRIBUTES: NONE

ATTRIBUTES SPECIFIED AT SEARCH-TIME:

MLEVEL IS CLASS ON RING NODES AND RING GROUPS
MLEVEL IS CLASS ON CHAIN NODES AND CHAIN GROUPS
ECLEVEL IS LIM ON ALL NODES
ALL RING(S) ARE ISOLATED

L13 18 SEA FILE=MARPAT SUB=L11 SSS FUL L12 (MODIFIED ATTRIBUTES)

100.0% PROCESSED 134 ITERATIONS (1 INCOMPLETE) 18 ANSWERS
SEARCH TIME: 00.01.10

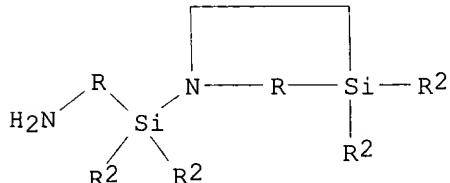
L13 ANSWER 1 OF 18 MARPAT COPYRIGHT 2002 ACS

09/590447

(ALL HITS ARE ITERATION INCOMPLETES)

ACCESSION NUMBER: 136:102511 MARPAT
TITLE: Preparation of cyclic silazanes
INVENTOR(S): Schaefer, Oliver; Bauer, Andreas; Brader,
Leonhard; Pachaly, Bernd; Frey, Volker
PATENT ASSIGNEE(S): Consortium fuer Elektrochemische Industrie GmbH,
Germany
SOURCE: Ger., 6 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10049183	C1	20020117	DE 2000-10049183	20001005
EP 1195379	A1	20020410	EP 2001-117799	20010802
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002042491	A1	20020411	US 2001-965902	20010927
PRIORITY APPLN. INFO.: DE 2000-10049183 20001005				
OTHER SOURCE(S):	CASREACT 136:102511			
GI				



AB The prepn. of title compds., I (R = divalent Si-C and Si-N bonded optionally cyano or halo-substituted C3-15 hydrocarbon, etc.; R1 = H, monovalent halo substituted Si-C bonded C1-15 hydrocarbon, etc.; R2 = H, monovalent halo or cyano substituted Si-C bonded C1-20 hydrocarbon, etc.), is described. Thus, ammonolysis of 3-chloropropyldimethylchlorosilane in a autoclave gave N-((3-aminopropyl)dimethylsilyl)-2,2-dimethyl-1-aza-2-silacyclopentane which on hydrolysis with H2O/THF gave 95% bis(3-aminopropyl)tetramethyldisiloxane.

IC ICM C07F007-10
ICS C07F007-18

CC 29-6 (Organometallic and Organometalloidal Compounds)
Section cross-reference(s): 35

ST cyclic silazane prepn hydrolysis; disiloxane aminopropyl prepn

IT Silazanes
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of cyclic)

IT 10605-40-0, 3-Chloropropyldimethylchlorosilane 388613-96-5
RL: RCT (Reactant); RACT (Reactant or reagent)

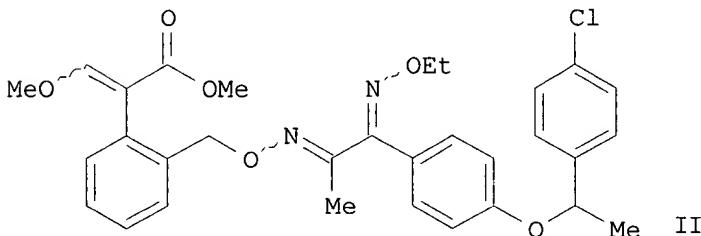
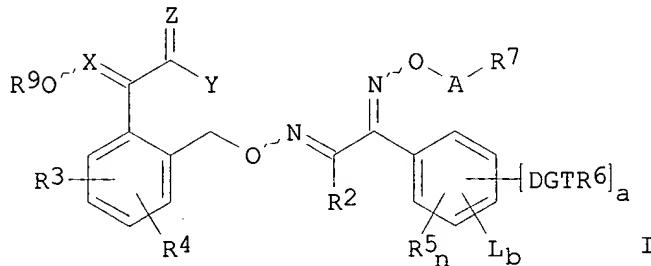
09/590447

IT (ammonolysis of)
388606-32-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)
(prepn. and hydrolysis of)
IT 2469-55-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L13 ANSWER 2 OF 18 MARPAT COPYRIGHT 2002 ACS
ACCESSION NUMBER: 135:344274 MARPAT
TITLE: Preparation of O-benzyl oxime ethers as
pesticides
INVENTOR(S): Trah, Stephan; Szczepanski, Henry; Huter, Ottmar
Franz; Hall, Roger Graham; Farooq, Saleem;
Pascual, Alfons
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: U.S., 33 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6313344	B1	20011106	US 1998-85283	19980527

GI



AB The title compds. [I; either X = CH, N; Y = OR1; Z = O, or X = N; Y

= NHR8, Z = O, S, S(O); R1-R4 = H, C1-4 alkyl, etc.; R5 = halo, alkyl, haloalkyl, etc.; n = 0-4; R8 = H, C1-4 alkyl; R9 = Me, CH2F, CHF2; A = a direct bond, C(O), C(S), etc.; R7 = CN, OH, OC1-6 alkyl, etc.; D = O, S, S(O), S(O)2; G = C1-8 alkylene; TR6 = R6, C(O)R6; C.tplbond.CR6, etc.; R6 = alkyl, (un)substituted aryl, heteroaryl; L = UR18, P(O)vR11R12, etc.; v = 0-1; UR18 = C(O)C(O)R18, C(OH)C(OH)R18, etc.; a = 0-1; b = 0-1; R11, R12 = alkyl, haloalkyl, cycloalkyl; R18 = R6], useful in controlling pests, were prep'd. Thus, treatment of 1-[4-[1-(4-chlorophenyl)ethoxy]phenyl]-1,2-propanedione-(ethyloxime)-2-oxime (prepn. given) with NaH in DMF followed by addn. of 2-(bromomethyl)-.alpha.-(methoxymethylene)phenylacetic acid Me ester in DMF afforded (E)-II which was more than 80% effective against *Aphis craccivora* and *Diabrotica balteata*.

IC ICM C07C327-00
 NCL 564074000
 CC 25-5 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 5
 ST benzyl oxime ether prepn pesticide
 IT Pesticides
 (prepn. of O-benzyl oxime ethers as pesticides)
 IT 216667-97-9P 216674-48-5P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of O-benzyl oxime ethers as pesticides)
 IT 216667-88-8P 216668-04-1P 216668-11-0P 216668-21-2P
 216668-29-0P 216668-36-9P 216668-44-9P 216668-52-9P
 216668-58-5P 216668-64-3P 216668-70-1P 216668-77-8P
 216668-85-8P 216668-92-7P 216668-99-4P 216669-06-6P
 216669-12-4P 216669-19-1P 216669-24-8P 216669-33-9P
 216669-39-5P 216669-46-4P 216669-52-2P 216669-59-9P
 216669-65-7P 216669-70-4P 216669-76-0P 216669-85-1P
 216669-93-1P 216670-01-8P 216670-09-6P 216670-15-4P
 216670-25-6P 216670-32-5P 216670-39-2P 216670-51-8P
 216670-59-6P 216670-67-6P 216670-76-7P 216670-86-9P
 216670-97-2P 216671-09-9P 216671-18-0P 216671-27-1P
 216671-37-3P 216671-49-7P 216671-57-7P 216671-68-0P
 216671-76-0P 216671-84-0P 216671-95-3P 216672-04-7P
 216672-13-8P 216672-25-2P 216672-34-3P 216672-42-3P
 216672-52-5P 216672-66-1P 216672-77-4P 216672-87-6P
 216673-00-6P 216673-08-4P 216673-17-5P 216673-26-6P
 216673-35-7P 216673-46-0P 216673-57-3P 216673-68-6P
 216673-75-5P 216673-83-5P 216673-89-1P 216673-95-9P
 216674-01-0P 216674-07-6P 216674-15-6P 216674-21-4P
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 216674-57-6P 216674-60-1P 216674-62-3P 216674-65-6P
 216674-69-0P 216674-73-6P 216674-80-5P 216674-82-7P
 216674-83-8P 216674-85-0P 216674-87-2P 216674-88-3P
 216674-90-7P 216674-91-8P 216674-94-1P 216674-96-3P
 216674-98-5P 216674-99-6P 216675-02-4P 216675-03-5P
 216675-05-7P 216675-09-1P 216675-10-4P 216675-11-5P
 216675-13-7P 216675-15-9P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of O-benzyl oxime ethers as pesticides)
 IT 106-47-8, 4-Chloroaniline, reactions 456-03-1,
 4-Fluoropropiophenone 460-00-4, 4-Bromofluorobenzene 536-38-9
 762-04-9, Diethyl phosphite 770-39-8, 1-(4-Hydroxyphenyl)propan-2-
 one 1719-57-9, (Chloromethyl)dimethylsilyl chloride 3391-10-4,
 1-(4-Chlorophenyl)ethanol 4937-87-5 107048-59-9 115199-26-3
 170732-31-7 187347-38-2 216675-57-9 216675-59-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of O-benzyl oxime ethers as pesticides)
 IT 770-90-1P 69617-60-3P 152801-67-7P 216675-17-1P 216675-18-2P
 216675-20-6P 216675-25-1P 216675-27-3P 216675-30-8P
 216675-33-1P 216675-34-2P 216675-36-4P 216675-39-7P
 216675-40-0P 216675-42-2P 216675-45-5P 216675-47-7P
 216675-49-9P 216675-51-3P 216675-52-4P 216675-54-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT (Reactant or reagent)
 (prepn. of O-benzyl oxime ethers as pesticides)

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L13 ANSWER 3 OF 18 MARPAT COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 134:86630 MARPAT
 TITLE: Production method of 1,4-dienes with high *Bad date*
 selectivity
 INVENTOR(S): Sakai, Tatsuya
 PATENT ASSIGNEE(S): JSR Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001010982	A2	20010116	JP 1999-178946	19990624
AB	1,4-Dienes represented by the general formula $CH_2:CHCH_2CH:CR_1CHR_2R_3$ are obtained by a reaction of ethylene with 1,3-diens represented by the general formula $CH_2:CHCR_1:CR_2R_3$ at 50-100.degree. under .gtoreq.3 MPa pressure for 3 min to 2 h in the presence of Fe compds. and organoaluminum compds. represented by the general formula $R_4nAlZn-3$, where $R_1-3 = H$, halogen, C1-20 hydrocarbyl, C1-20 halogenated hydrocarbyl, or alkylsilyl (excluding $R_1 = R_2 = R_3 = H$), $R_4 = C1-20$ monovalent hydrocarbyl, Z = H, alkoxy, or halogen, and 0 $< n \leq 3$. Thus, 500 g isoprene was reacted with ethylene at 80.degree. for 2 h under 3 MPa pressure in the presence of 1.5 mmol triethylaluminum and 0.5 mmol iron(III) acetylacetone to give 50:50 5-methyl-1,4-hexadiene/4-methyl-1,4-hexadiene with yield 85%.			
IC	ICM C07C002-40			
CC	ICS B01J031-20; C07C011-12; C07C015-44; C07B061-00			
CC	35-2 (Chemistry of Synthetic High Polymers)			
ST	Section cross-reference(s): 23			
ST	diene prepn isoprene ethylene			
IT	Alkadienes			
RL: RCT (Reactant); RACT (Reactant or reagent) (1,3-; prepn. of 1,4-dienes with high selectivity from 1,3-diens and ethylene)				

IT Alkadienes
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (1,4-; prepn. of 1,4-dienes with high selectivity from 1,3-diens
 and ethylene)

IT 97-93-8, Triethylaluminum, uses 121-44-8, Triethylamine, uses
 607-01-2, Diphenylphosphinoethane 14024-18-1, Iron acetylacetone
 37275-48-2, Bipyridyl
 RL: CAT (Catalyst use); USES (Uses)
 (catalyst; prepn. of 1,4-dienes with high selectivity from
 1,3-diens and ethylene)

IT 145414-95-5P 318269-42-0P, 1,?-Heptadiene 318269-43-1P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of 1,4-dienes with high selectivity from 1,3-diens and
 ethylene)

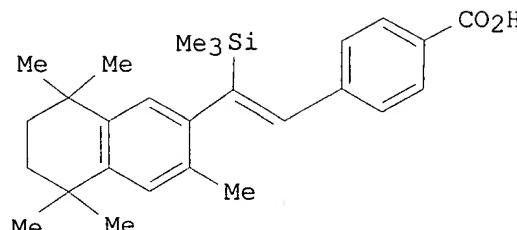
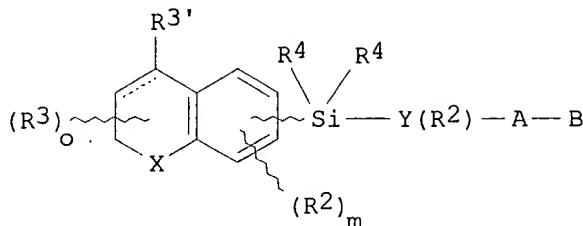
IT 74-85-1, Ethylene, reactions 78-79-5, Isoprene, reactions
 504-60-9, 1,3-Pentadiene 2288-18-8, 2-Phenyl-1,3-butadiene
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of 1,4-dienes with high selectivity from 1,3-diens and
 ethylene)

L13 ANSWER 4 OF 18 MARPAT COPYRIGHT 2002 ACS

ACCESSION NUMBER: 134:42260 MARPAT
 TITLE: Organosilyl compounds having nuclear hormone
 receptor modulating activity
 INVENTOR(S): Beard, Richard L.; Garst, Michael; Chandraratna,
 Roshantha A.
 PATENT ASSIGNEE(S): Allergan Sales, Inc., USA
 SOURCE: PCT Int. Appl., 66 pp.
 CODEN: PIXXD2 *Bad date*
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000077011	A1	20001221	WO 2000-US15972	20000609
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1185539	A1	20020313	EP 2000-941321	20000609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000011741	A	20020319	BR 2000-11741	20000609
PRIORITY APPLN. INFO.:			US 1999-138731P	19990611
			WO 2000-US15972	20000609

GI



AB The prepn. of silicon-contg. org. compds., I (X = O, S, NR', R' = C1-6 alkyl; R2 = H, C1-6 alkyl, F, Cl, Br, I, CF3, OH, SH, C1-12 alkoxy, alkylthio, etc.; R3 = H, C1-6 alkyl, F; m = 0-3; o = 0-4; R3' = H, C1-6 alkyl, F, heteroaryl with 1-3 hetero atoms, etc.; R4 = C1-8 alkyl, Ph, etc.; Y = Ph, naphthyl, heteroaryl, etc.; A = (CH2)q, q = C3-6 alkyl, C3-6 cycloalkyl, C2-6 alkenyl, C2-6 alkynyl, etc.; B = H, CO2H, NO2, P(O)(OH)2, etc.), useful as modulators of mammalian nuclear hormone receptors, particularly the retinoid receptors and the farnesoid receptors, is described. Thus, silylation of 4-BrC6H4CH2OH with Ph2(t-Bu)SiCl in CH2Cl2 in the presence of Et3N gave 4-BrC6H4CH2OSiPh2Bu-t which on coupling with Me3SiC.tplbond.CH gave 4-Me3SiC.tplbond.CC6H4CH2OSiPh2Bu-t. Borane mediated coupling of 4-Me3SiC.tplbond.CC6H4CH2OSiPh2Bu-t with 2-bromo-3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydronaphthalene followed by MnO2 oxidn. and hydrolysis gave title compd. II.

IC ICM C07F007-08

CC 29-6 (Organometallic and Organometalloidal Compounds)
Section cross-reference(s): 1

ST organo silyl compd prepn hormone receptor modulating activity; retinoid receptor organo silyl compd prepn

IT Hormone receptors
Retinoid receptors
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(prepn. of organosilyl compds. having nuclear hormone receptor modulating activity)

IT 27452-17-1 119999-22-3, 2-Bromo-3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydronaphthalene
RL: RCT (Reactant); RACT (Reactant or reagent)
(borane mediated coupling reaction with silylethynylbenzyl silyl ether)

IT 5798-75-4, Ethyl 4-bromobenzoate
RL: RCT (Reactant); RACT (Reactant or reagent)
(coupling reaction with (trimethylsilyl)acetylene)

IT 312738-91-3

IT 312738-92-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (coupling reaction with Et silylethynylbenzoate)

IT 1066-54-2, (Trimethylsilyl)acetylene
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (coupling reaction with bromobenzyl silyl ether)

IT 22385-77-9, 1-Bromo-3,5-di-tert-butylbenzene
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (coupling reaction with silylethynylbenzyl silyl ether)

IT 312738-30-0P 312738-61-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT (Reactant or reagent)
 (prepn. and borane mediated coupling reaction with
 bromopentamethyltetrahydronaphthalene)

IT 150969-54-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT (Reactant or reagent)
 (prepn. and coupling reaction with bromotetramethylchroman)

IT 133776-42-8P 312738-59-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT (Reactant or reagent)
 (prepn. and coupling reaction with trimethylsilylacetylene)

IT 312738-41-3P 312738-52-6P 312738-57-1P 312738-65-1P
 312738-69-5P 312738-74-2P 312738-79-7P 312738-82-2P
 312738-86-6P 312738-89-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT (Reactant or reagent)
 (prepn. and hydrolysis of)

IT 188889-06-7P 300537-62-6P 312738-36-6P 312738-49-1P
 312738-64-0P 312738-68-4P 312738-72-0P 312738-77-5P
 312738-81-1P 312738-85-5P 312738-88-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 RACT (Reactant or reagent)
 (prepn. and oxidn. of)

IT 312738-45-7P 312738-55-9P 312738-58-2P 312738-67-3P
 312738-70-8P 312738-75-3P 312738-80-0P 312738-84-4P
 312738-87-7P 312738-90-2P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of organosilyl compds. having nuclear hormone receptor
 modulating activity)

IT 58479-61-1, tert-Butyldiphenylsilyl chloride
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (silylation of bromobenzyl alc. with)

IT 1719-53-5, Diethyldichlorosilane
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (silylation with bromotetramethyltetrahydronaphthalene)

IT 873-75-6, 4-Bromobenzyl alcohol 79387-71-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (silylation with tert-butyldiphenylsilyl chloride)

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

ACCESSION NUMBER: 134:37038 MARPAT
 TITLE: Methods for modulating FXR receptor activity
 INVENTOR(S): Forman, Barry M.; Beard, Richard L.;
 Gyhandraratna, Roshantha A.
 PATENT ASSIGNEE(S): Allergan Sales, Inc.; USA
 SOURCE: PCT Int. Appl., 83 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

bad date

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000076523	A1	20001221	WO 2000-US15912	20000609
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1185277	A1	20020313	EP 2000-941312	20000609
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.: US 1999-138731P 19990611
 WO 2000-US15912 20000609

AB Methods for modulating the activity of the mammalian FXR (farnesoid X-activated receptor). The methods include methods of treating a hyper- or hypocholesterolemic mammal comprising contacting the mammal with synthetic compds. having FXR receptor activity.
 IC A61K031-695; A61P035-00; A61P009-10
 CC 1-10 (Pharmacology)
 Section cross-reference(s): 29
 ST FXR receptor modulation hypercholesterolemia treatment;
 hypocholesterolemia treatment FXR receptor modulation; farnesoid X receptor modulation hypocholesterolemia treatment
 IT Nuclear receptors
 RL: BPR (Biological process); BSU (Biological study, unclassified);
 BIOL (Biological study); PROC (Process)
 (FXR (farnesoid X-activated receptor); methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)
 IT Anticholesteremic agents
 (methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)
 IT Retinoid X receptors
 RL: BPR (Biological process); BSU (Biological study, unclassified);
 BIOL (Biological study); PROC (Process)
 (methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)
 IT Bile acids
 RL: BPR (Biological process); BSU (Biological study, unclassified);
 MFM (Metabolic formation); BIOL (Biological study); FORM (Formation,

nonpreparative); PROC (Process)
 (modulation of prodn. of; methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)

IT 57-88-5, Cholesterol, biological studies
 RL: ADV (Adverse effect, including toxicity); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (blood, hypocholesterolemia, treatment of; methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)

IT 312738-36-6P 312738-41-3P 312738-49-1P 312738-52-6P
 312738-57-1P 312738-64-0P 312738-65-1P 312738-68-4P
 312738-69-5P 312738-72-0P 312738-74-2P 312738-77-5P
 312738-79-7P 312738-81-1P 312738-82-2P 312738-85-5P
 312738-86-6P 312738-88-8P 313219-43-1P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)

IT 312738-45-7P 312738-55-9P 312738-58-2P 312738-67-3P
 312738-70-8P 312738-75-3P 312738-80-0P 312738-84-4P
 312738-87-7P 313219-44-2P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)

IT 71441-28-6, TTNPB 313268-94-9, ACN 10
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)

IT 873-75-6, 4-Bromobenzyl alcohol 1066-54-2,
 (Trimethylsilyl)acetylene 5798-75-4, Ethyl 4-bromobenzoate 22385-77-9, 1-Bromo-3,5-di-tert-butylbenzene 27452-17-1
 58479-61-1, tert-Butyldiphenylsilyl chloride 79387-71-6
 119999-22-3, 2-Bromo-3,5,5,8,8-pentamethyl-5,6,7,8-tetrahydronaphthalene 188889-06-7 201142-10-1 300537-62-6
 312738-91-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in relation to role of RXR receptor)

IT 133776-42-8P, 4-Bromobenzyl tert-butyldiphenylsilyl ether 150969-54-3P 312738-30-0P 312738-59-3P 312738-61-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (methods for modulating FXR (farnesoid X-activated) receptor activity and treatment of hyper- and hypocholesterolemia in

09/590447

relation to role of RXR receptor)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 6 OF 18 MARPAT COPYRIGHT 2002 ACS

ACCESSION NUMBER: 133:349995 MARPAT

TITLE: Preparation of 1-alkoxy and 1-acyloxy substituted cyclohex-1-ene compounds and sulfur and 1-alkoxycarbonyl analogs having retinoid-like biological activity

INVENTOR(S): Beard, Richard L.; Colon, Diana F.; Chandraratna, Roshantha A.

PATENT ASSIGNEE(S): Allergan Sales, Inc., USA
SOURCE: PCT Int. Appl., 58 pp.

DOCUMENT TYPE: Patent

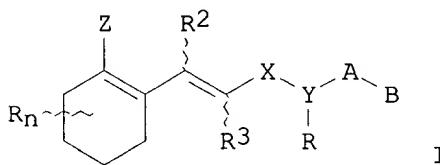
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000068190	A2	20001116	WO 2000-US11975	20000503
WO 2000068190	A3	20010118		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6177588	B1	20010123	US 1999-307073	19990507
PRIORITY APPLN. INFO.:			US 1999-307073	19990507

GI



AB The title compds. I [R1 = alkyl, Ph, heteroaryl, RCO, RCS, trifluoromethylsulfonyl, trialkylsilyl; Z = W1R1 or W2; W1 = O, S; W2 = CH2OR2, R2CO, CN, etc.; R = H, lower alkyl of 1 to 10 carbons, cycloalkyl of 3 to 10 carbons, halo, etc.; R2, R3 = lower alkyl of 1 to 10 carbons, cycloalkyl; n = 0-6; X = C.tplbond.C, CO2, etc.; Y = Ph, naphthyl, heteroaryl; A = (CH2)q; B = H, CO2H, etc.], having retinoid antagonist or retinoid neg. hormone like biol. activity, were prep'd. E.g., Et (E)-4-(4-(2,2-dimethyl-6-(trifluoromethanesulfonyl)oxycyclohex-1-enyl)but-3-en-1-ynyl)benzoate was prep'd.

IC ICM C07C403-00
 CC 24-5 (Alicyclic Compounds)
 Section cross-reference(s): 1
 ST cyclohexene alkoxy acyloxy prepn retinoid like activity
 IT Retinoids
 RL: BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study)
 (prepn. of 1-alkoxy and 1-acyloxy substituted cyclohex-1-ene compds. and sulfur and 1-alkoxycarbonyl analogs having retinoid-like biol. activity)
 IT 208253-12-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of 1-alkoxy and 1-acyloxy substituted cyclohex-1-ene compds. and sulfur and 1-alkoxycarbonyl analogs having retinoid-like biol. activity)
 IT 208253-13-8P 305818-72-8P 305818-73-9P 305818-74-0P
 305818-75-1P 305818-76-2P.
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 1-alkoxy and 1-acyloxy substituted cyclohex-1-ene compds. and sulfur and 1-alkoxycarbonyl analogs having retinoid-like biol. activity)
 IT 51934-41-9, Ethyl 4-iodobenzoate 305818-77-3 305818-78-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of 1-alkoxy and 1-acyloxy substituted cyclohex-1-ene compds. and sulfur and 1-alkoxycarbonyl analogs having retinoid-like biol. activity)
 IT 10602-03-6P, Ethyl 4-ethynylbenzoate 208253-10-5P 208253-11-6P
 305818-79-5P 305818-80-8P 305818-81-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of 1-alkoxy and 1-acyloxy substituted cyclohex-1-ene compds. and sulfur and 1-alkoxycarbonyl analogs having retinoid-like biol. activity)

L13 ANSWER 7 OF 18 MARPAT COPYRIGHT 2002 ACS

ACCESSION NUMBER: 133:238475 MARPAT
 TITLE: Hydrolyzable and polymerizable silanes, their preparation and use
 INVENTOR(S): Wolter, Herbert; Schmitzer, Siegfried
 PATENT ASSIGNEE(S): Fraunhofer-Gesellschaft zur Förderung der Angewandten Forschung e.V., Germany
 SOURCE: PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

Bad date

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000053612	A1	20000914	WO 2000-DE765	20000307
W: AU, BR, CA, CZ, KR, NO, NZ, PL, SI, TR, US, AM, AZ, BY, KG,				

KZ, MD, RU, TJ, TM
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
 NL, PT, SE
 DE 19910895 A1 20000921 DE 1999-19910895 19990311
 EP 1159281 A1 20011205 EP 2000-916815 20000307
 R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, PT, SI,
 FI

PRIORITY APPLN. INFO.: DE 1999-19910895 19990311
 WO 2000-DE765 20000307

AB The silanes have the formula $\{[B(\text{CONHR1})eR0c}bSiXaR4-a-b)d$, where B is a C2-50 org. residue with .gtoreq.1 C-C double bond, R = (un)substituted C1-15 alkyl, alkenyl, aryl, alkylaryl or arylalkyl, R0 and R1 = (un)substituted alkylene, alkenylene, arylene, alkylenearylene or arylenealkylene, X = H, halogen, OH, alkoxy, acyl, acyloxy, alkoxy carbonyl or NR22, R2 = H, alkyl or aryl, a and b = 1-3, a + b = 2-4, c = 0 or 1, d = 1-10, and e = 1-4, and are used in the prodn. of silicic acid (hetero)polycondensates and (hetero)polymers. Thus, glycerol 1,3-dimethacrylate was esterified with succinic anhydride, and the product was treated with (EtO)3Si(CH2)3NCO to give (CH2:CMcCO2CH2)2CHO2CCH2CH2CONH(CH2)3Si(OEt)3, which was hydrolyzable to form a coating material that could be cured by radical polymn. of the methacrylate groups or their copolymn. with dodecamethylene dimethacrylate. The copolymer was also useful in dental fillings or prostheses.

IC ICM C07F007-12
 ICS C07F007-18; C07F007-10; C08G077-20; C08G077-22; C08F030-08

CC 35-2 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 29, 42, 63

ST unsatd hydrolyzable silane monomer; dental composite unsatd hydrolyzable silane

IT Dental materials and appliances
 (composites; prepn. of hydrolyzable and polymerizable silanes for use in)

IT Adhesives
 Coating materials
 Contact lenses
 Sealing compositions
 (prepn. of hydrolyzable and polymerizable silanes for use in)

IT 293727-39-6P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (prepn. of hydrolyzable and polymerizable silanes)

IT 293727-40-9P 293727-41-0P
 RL: PNU (Preparation, unclassified); PREP (Preparation)
 (prepn. of hydrolyzable and polymerizable silanes)

IT 24801-88-5 293727-38-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of hydrolyzable and polymerizable silanes)

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE
 IN THE RE FORMAT

L13 ANSWER 8 OF 18 MARPAT COPYRIGHT 2002 ACS

ACCESSION NUMBER: 132:166736 MARPAT

TITLE: Mixture of fluoroarylaluminum and
 aryloxyaluminum catalyst activator composition
 for olefin polymerization

INVENTOR(S): Chen, Eugene Y.; Kruper, William J., Jr.; Roof,

PATENT ASSIGNEE(S): Gordon R.; Schwartz, David J.; Storer, Joey W.
 SOURCE: The Dow Chemical Co., USA
 PCT Int. Appl., 32 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

Bad date

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000009514	A1	20000224	WO 1999-US13345	19990611
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9945646	A1	20000306	AU 1999-45646	19990611
US 6211111	B1	20010403	US 1999-330675	19990611
EP 1105398	A1	20010613	EP 1999-928617	19990611
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
US 2001018396	A1	20010830	US 2001-772592	20010130
US 6387838	B2	20020514		
PRIORITY APPLN. INFO.:				
US 1998-96800P 19980817				
US 1998-100490P 19980916				
US 1999-330675 19990611				
WO 1999-US13345 19990611				

AB The activators are described as aryloxyaluminum compds. AlArfQ1Q2, or a dimer, adduct, or mixt. that are mixed with Al compds. AlArf3 at ratio 1:0.1-10, where Arf is a fluorinated arom. hydrocarbonyl moiety of 6-30 C atoms; Q1 = Arf or a C1-20 hydrocarbyl group, optionally substituted with .gtoreq.1 cyclohydrocarbyl, hydrocarbyloxy, hydrocarbysiloxy, hydrocarbysilylarnino, hydrocarbysilyl, silylhydrocarbyl, di(hydrocarbysilyl)arnino, hydrocarbylarnino, di(hydrocarbyl)arnino, di(hydrocarbyl)phosphino, or hydrocarbysulfido groups having 1-20 atoms other than H, or further optionally, such substituents may be covalently linked with each other to form .gtoreq.1 fused rings or ring systems; and Q2 = aryloxy, arylsulfide or di(hydrocarbyl)arnido group, optionally substituted with .gtoreq.1 hydrocarbyl, cyclohydrocarbyl, hydrocarbyloxy, hydrocarbysiloxy, hydrocarbysilylarnino, hydrocarbysilyl, silylhydrocarbyl, di(hydrocarbysilyl)arnino, hydrocarbylarnino, di(hydrocarbyl)arnino, di(hydrocarbyl)phosphino, or hydrocarbysulfido groups having 1-20 atoms other than H, or, further optionally such substituents may be covalently linked with each other to form .gtoreq.1 fused rings or ring systems, the Q2 having 3-20 atoms other than H. An example activator was a mixt. of tris(perfluorophenyl)aluminum and diisobutyl-(2,6-tert-butyl-4-methylphenoxy)aluminum.

IC ICM C07F005-06
 ICS C08F010-00
 CC 35-3 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 67

09/590447

ST aryloxyaluminum polymn catalyst activator; titanium metallocene polymn catalyst olefin; trisperfluorophenyl aluminum mixt aryloxyaluminum activator
IT Polymerization catalysts
(activators; metallocene and aryloxyaluminum catalyst activator mixt. for olefin polymn.)
IT 255884-99-2P 258883-20-4P 259141-07-6P
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(activators; metallocene and aryloxyaluminum catalyst activator mixt. for olefin polymn.)
IT 56252-56-3, Diisobutyl-(2,6-di-tert-butyl-4-methylphenoxy)aluminum 168704-96-9
RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
(activators; metallocene and aryloxyaluminum catalyst activator mixt. for olefin polymn.)
IT 169104-71-6
RL: CAT (Catalyst use); USES (Uses)
(metallocene and aryloxyaluminum catalyst activator mixt. for olefin polymn.)
IT 25085-53-4P, Isotactic polypropylene 26221-73-8P,
Ethylene-1-octene copolymer
RL: IMF (Industrial manufacture); PREP (Preparation)
(metallocene and aryloxyaluminum catalyst activator mixt. for olefin polymn.)
IT 130139-66-1 135072-62-7 197641-03-5 203068-22-8 210301-31-8
223645-35-0 240136-02-1 240136-04-3
RL: CAT (Catalyst use); USES (Uses)
(metallocene; metallocene and aryloxyaluminum catalyst activator mixt. for olefin polymn.)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 9 OF 18 MARPAT COPYRIGHT 2002 ACS
ACCESSION NUMBER: 131:102289 MARPAT
TITLE: Preparation of xanthine derivatives as P-450
inhibitors
INVENTOR(S): Klein, J. Peter; Kumar, Anil M.; Woodson, Paul
PATENT ASSIGNEE(S): Cell Therapeutics, Inc., USA
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

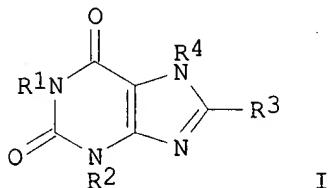
Bad date ✓

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9935148	A1	19990715	WO 1999-US34	19990104
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,				

09/590447

CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 6075029	A 20000613	US 1998-2345	19980102
AU 9919508	A1 19990726	AU 1999-19508	19990104
PRIORITY APPLN. INFO.:		US 1998-2345	19980102
		WO 1999-US34	19990104

GI



AB Xanthine compds. I (R1 = .omega.-1 secondary alc.-substituted alkyl; R2 = alkyl, alkenyl, alkynyl; R3 = CH2Y and Y = alkyl, alkenyl, alkynyl; R4 = H, CH2Y) were prep'd. I are useful in affecting drug metab. and, particularly, in extending the circulating half-life of compds. that are metabolized via P 450-mediated pathways. E.g., (R)-1-(5-hydroxyhexyl)-3,8-dimethylxanthine was prep'd.

IC C07D473-04; A61K031-52

CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1

ST xanthine prepn P 450 inhibitor

IT 230644-80-1P 230644-81-2P 230954-82-2P, CT 2408R 230954-83-3P,
CT 2408S 230954-84-4P, CT 2412R 230954-86-6P, CT 2412S
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(prepn. of xanthine derivs. as P 450 inhibitors)

IT 9035-51-2, P 450, biological studies

RL: BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL
(Biological study)

(prepn. of xanthine derivs. as P 450 inhibitors)

IT 100-39-0, Benzyl bromide 617-89-0, Furfurylamine 2434-53-9,
6-Amino-1-methyluracil 18997-19-8, Chloromethyl pivalate
154885-34-4 230644-82-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of xanthine derivs. as P 450 inhibitors)

IT 5962-13-0P, Furfurylurea 6972-82-3P, 5,6-Diamino-1-methyluracil
82448-39-3P, 3,8-Dimethylxanthine 131598-98-6P 230644-83-4P
230644-84-5P 230644-85-6P 230644-86-7P 230644-87-8P
230644-88-9P 230644-89-0P 230644-90-3P 230644-91-4P
230644-92-5P 230644-93-6P 230644-94-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)

(prepn. of xanthine derivs. as P 450 inhibitors)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L13 ANSWER 10 OF 18 MARPAT COPYRIGHT 2002 ACS
ACCESSION NUMBER: 130:168477 MARPAT

Searcher : Shears 308-4994

TITLE: Preparation of 2-silylalkenylboranes
 INVENTOR(S): Onosawa, Shunya; Hatanaka, Yasuo; Tanaka, Masato
 PATENT ASSIGNEE(S): Agency of Industrial Sciences and Technology,
 Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11012285	A2	19990119	JP 1997-162175	19970619
JP 2963985	B2	19991018		

OTHER SOURCE(S): CASREACT 130:168477

AB R1R2R3SiCR6:CR7BR4R5 (I; R1-R3 = aliph. or arom. group; R4, R5 = halo, alkoxy, aryloxy, amino; R4R5 may form ring; R6, R7 = H, aliph. or arom. group, silyl) are prep'd. by reaction of R1R2R3SiBR4R5 (R1-R5 = same as I) with R6C.tplbond.CR7 (R6, R7 = same as I) in the presence of catalysts comprising Group 10 metals, their complexes, or their salts. 1-Octyne was reacted with 1,3-dimethyl-2-(dimethylphenylsilyl)-1,3-diaza-2-boracyclopentane in C6H6 in the presence of tris(dibenzylideneacetone)dipalladium and 4-ethyl-1-phospha-2,6,7-trioxabicyclo[2.2.2]octane at 80.degree. for 2 h to give 92% (Z)-I (R1 = R2 = Me, R3 = Ph, R4R5 = NMeCH2CH2NMe, R6 = n-hexyl, R7 = H).

IC ICM C07F007-08

ICS B01J031-24; C07F007-10; C07B061-00

CC 29-6 (Organometallic and Organometalloidal Compounds)

ST silylalkenylborane prep'n; borane silyl alkenyl prep'n; alkyne addn silylborane Group 10 catalyst

IT Group VIII element compounds

RL: CAT (Catalyst use); USES (Uses)

(Group 10, salts; catalysts in prep'n. of silylalkenylboranes by addn. reaction of silylboranes to alkynes using)

IT Group VIII element complexes

Group VIII elements

RL: CAT (Catalyst use); USES (Uses)

(Group 10; catalysts in prep'n. of silylalkenylboranes by addn. reaction of silylboranes to alkynes using)

IT Addition reaction catalysts

(prep'n. of silylalkenylboranes by addn. reaction of silylboranes to alkynes using Group 10 catalysts)

IT Alkynes

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant in prep'n. of silylalkenylboranes by addn. reaction of silylboranes to alkynes using Group 10 catalysts)

IT 14221-01-3, Tetrakis(triphenylphosphine)palladium 51364-51-3,

Tris(dibenzylideneacetone)dipalladium

RL: CAT (Catalyst use); USES (Uses)

(catalyst in prep'n. of silylalkenylboranes by addn. reaction of silylboranes to alkynes using Group 10 catalysts)

IT 594-09-2, Trimethylphosphine 824-11-3, 4-Ethyl-1-phospha-2,6,7-trioxabicyclo[2.2.2]octane

RL: CAT (Catalyst use); USES (Uses)

(cocatalyst in prep'n. of silylalkenylboranes by addn. reaction of silylboranes to alkynes using Group 10 catalysts)

09/590447

IT 193903-46-7P 193903-47-8P 193903-49-0P 193903-51-4P
220368-08-1P 220368-09-2P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of silylalkenylboranes by addn. reaction of silylboranes to alkynes using Group 10 catalysts)
IT 2396-63-6, 1,6-Heptadiyne
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of silylalkenylboranes by addn. reaction of silylboranes to alkynes using Group 10 catalysts)
IT 536-74-3, Ethynylbenzene 629-05-0, 1-Octyne 871-84-1,
1,7-Octadiyne 193903-45-6, 1,3-Dimethyl-2-(dimethylphenylsilyl)-
1,3-diaza-2-boracyclopentane
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant in prepn. of silylalkenylboranes by addn. reaction of silylboranes to alkynes using Group 10 catalysts)

L13 ANSWER 11 OF 18 MARPAT COPYRIGHT 2002 ACS

ACCESSION NUMBER: 130:95697 MARPAT
TITLE: Synthesis and use of retinoid compounds having negative hormone and/or antagonist activities
INVENTOR(S): Klein, Elliott S.; Johnson, Alan T.; Standeven, Andrew M.; Beard, Richard L.; Gillett, Samuel J.; Duong, Tien T.; Nagpal, Sunil; Vuligonda, Vidyasagar; Teng, Min; Chandraratna, Roshantha A.
PATENT ASSIGNEE(S): Allergan Sales, Inc., USA
SOURCE: PCT Int. Appl., 252 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

Wrong Compd.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9858922	A1	19981230	WO 1998-US13065	19980624
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5877207	A	19990302	US 1997-880823	19970624
AU 9882619	A1	19990104	AU 1998-82619	19980624
AU 729140	B2	20010125		
EP 991636	A1	20000412	EP 1998-932821	19980624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9810340	A	20000919	BR 1998-10340	19980624
JP 2002507204	T2	20020305	JP 1999-504998	19980624
PRIORITY APPLN. INFO.:			US 1997-880823	19970624
			US 1996-613863	19960311
			WO 1998-US13065	19980624

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Retinoid analogs I [A = (R3)o; B = (R15)r; C = (F)s; X = C(R1)2, O; R1 = H, C1-6-alkyl; R2 = C1-6-alkyl, F, Cl, Br, I, CF3, C1-6-fluoroalkyl, OH, SH, C1-6-alkoxy, C1-6-alkylthio; m, o = 0 - 3; R3 = F, C1-6-alkyl; s = 1 - 3; R8 = C1-10-alkyl, trimethylsilylalkyl, C5-10-cycloalkyl, Ph, alkylphenyl; R15 = H, F, Cl, Br, I, NO₂, N(R8)2, COR8, NR8CON(R8)2, O2CR8, OR8, CN, C1-10-alkyl, C1-10-alkenyl, C1-10-alkadienyl, C1-10-alkatrienyl, C1-10-alkynyl, C1-10-alkadiynyl, C1-10-alkatriynyl, trialkylsilyl, trialkylsilyloxy; r = 0 - 5; CONH at C(6) or C(7) of benzopyran ring or C(2) or C(3) of dihydronaphthalene ring] having neg. hormone and/or antagonist activities are described. Thus, retinoid analog II was prep'd. from dihydrocoumarin via condensation of benzopyrancarboxylate III with p-tolylmagnesium bromide and amidation of tolylbenzopyrancarboxylic acid IV with Et 4-amino-2,6-difluorobenzoate. In the ligand binding assay II showed Kd = 0.69 nm for receptor RAR.alpha., Kd = 541 nm for receptor RAR.beta. and Kd = 7280 nm for receptor RAR.gamma..

IC ICM C07D311-58
 ICS C07C233-81; C07F007-18; A61K031-215; A61K031-335
 CC 30-20 (Terpenes and Terpenoids)
 Section cross-reference(s): 1, 2, 63
 ST retinoid analog prepn neg hormone receptor antagonist
 IT Retinoic acid receptors
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (RAR-.alpha.; synthesis and use of retinoid compds. having neg. hormone and/or antagonist activities)
 IT Retinoic acid receptors
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (RAR-.beta.; synthesis and use of retinoid compds. having neg. hormone and/or antagonist activities)
 IT Retinoic acid receptors
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (RAR-.gamma.; synthesis and use of retinoid compds. having neg. hormone and/or antagonist activities)
 IT Retinoids
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (analogs; synthesis and use of retinoid compds. having neg. hormone and/or antagonist activities)
 IT Steroids, biological studies
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (hormones; synthesis and use of retinoid compds. having neg. hormone and/or antagonist activities)
 IT Hormones, animal, biological studies
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(steroid; synthesis and use of retinoid compds. having neg. hormone and/or antagonist activities)

IT 166977-56-6P 171746-21-7P 180920-66-5P 182560-49-2P
 182560-50-5P 188888-00-8P 188888-02-0P 188888-04-2P
 188888-06-4P 188888-08-6P 188888-11-1P 188888-14-4P
 188888-16-6P 188888-18-8P 188888-20-2P 188888-22-4P
 188888-24-6P 188888-26-8P 188888-30-4P 188888-43-9P
 188888-47-3P 188888-55-3P 188888-67-7P 188888-80-4P
 188888-84-8P 188888-88-2P 192817-12-2P 219320-77-1P
 219320-78-2P 219320-79-3P 219320-80-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis and use of retinoid compds. having neg. hormone and/or antagonist activities)

IT 94-09-7, Ethyl 4-aminobenzoate 95-46-5, o-Bromotoluene 104-92-7, 1-Bromo-4-methoxybenzene 106-38-7, 4-Bromotoluene 106-39-8, 1-Bromo-4-chlorobenzene 106-53-6, 4-Bromothiophenol 109-04-6, 2-Bromopyridine 110-00-9, Furan 110-02-1, Thiophene 119-84-6 120-47-8, Ethyl 4-hydroxybenzoate 288-47-1, Thiazole 402-43-7, 1-Bromo-4-(trifluoromethyl)benzene 554-14-3, 2-Methylthiophene 556-96-7, 1-Bromo-3,5-dimethylbenzene 580-13-2, 2-Bromonaphthalene 590-92-1, 3-Bromopropionic acid 591-17-3 619-58-9, 4-Iodobenzoic acid 619-66-9, 4-Formylbenzoic acid 626-55-1, 3-Bromopyridine 637-59-2, 1-Bromo-3-phenylpropane 693-95-8, 4-Methylthiazole 1585-07-5, 4-Ethylbromobenzene 2537-48-6, Diethyl (cyanomethyl)phosphonate 2715-43-7, Ethyl 4-vinylbenzoate 3430-13-5, 5-Bromo-2-methylpyridine 3581-89-3, 5-Methylthiazole 3581-91-7, 4,5-Dimethylthiazole 3972-65-4, 1-Bromo-4-(tert-butyl)benzene 4294-57-9, 4-Tolylmagnesium bromide 5326-23-8, 6-Chloronicotinic acid 7476-79-1, Ethyl 4-nitrosobenzoate 39760-56-0 65423-56-5, 1-Bromo-3-[(tert-butylidimethylsilyl)oxy]benzene 67159-84-6 67963-68-2, 1-Bromo-4-[(tert-butylidimethylsilyl)oxy]benzene 73792-06-0, Ethyl 4-amino-2-fluorobenzoate 176700-52-0 191469-36-0, Ethyl 4-amino-2,6-difluorobenzoate

RL: RCT (Reactant); RACT (Reactant or reagent)

(synthesis and use of retinoid compds. having neg. hormone and/or antagonist activities)

IT 1198-96-5P, 2,2-Dimethylchroman 1590-25-6P 1985-59-7P, 1,1-Dimethyltetralin 2039-47-6P, 2,2-Dimethylchroman-6-carboxylic acid 2979-69-3P, 3,4-Dihydro-4,4-dimethyl-1(2H)-naphthalenone 2979-70-6P 5773-80-8P 6630-24-6P 13054-02-9P, 6-Iodonicotinic acid 13735-04-1P 13735-13-2P 32333-31-6P 33209-71-1P 51934-41-9P, Ethyl 4-iodobenzoate 86471-14-9P 150932-04-0P 151917-39-4P, Ethyl 6-iodonicotinate 166977-92-0P 166977-93-1P 166978-45-6P 166978-46-7P, 7-Bromo-3,4-dihydro-4,4-dimethyl-1(2H)-naphthalenone 166978-48-9P 166978-49-0P 171568-43-7P 171568-44-8P 180920-20-1P 180920-21-2P 180920-22-3P 180920-64-3P 180920-65-4P 188887-70-9P 188887-72-1P 188887-74-3P 188887-76-5P 188887-79-8P 188887-81-2P 188887-83-4P 188887-86-7P 188887-88-9P 188887-94-7P 188887-96-9P 188887-98-1P 188888-28-0P 188888-33-7P 188888-41-7P 188888-45-1P 188888-49-5P 188888-53-1P 188888-57-5P 188888-61-1P 188888-65-5P 188888-78-0P 188888-86-0P 188888-90-6P 188889-20-5P 188889-22-7P 188889-23-8P 188889-25-0P 188889-27-2P 188889-29-4P

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188889-33-0P 188889-35-2P 188889-37-4P 188889-39-6P
188889-41-0P 188889-45-4P 188889-47-6P 188889-49-8P
188889-51-2P 188889-53-4P 188889-55-6P 188889-57-8P
188889-60-3P 188889-63-6P 188889-66-9P 192762-68-8P
192762-69-9P 192762-70-2P 192762-71-3P 192762-72-4P
192762-73-5P 192762-74-6P 219320-73-7P 219320-74-8P
219320-75-9P 219320-76-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
RACT (Reactant or reagent)

(synthesis and use of retinoid compds. having neg. hormone and/or
antagonist activities)

IT 150932-00-6P 180920-67-6P 188887-90-3P 188887-92-5P
188888-39-3P 188888-51-9P 188888-59-7P 188888-63-3P
188888-92-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis and use of retinoid compds. having neg. hormone and/or
antagonist activities)

IT 166977-57-7P 180920-30-3P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(synthesis and use of retinoid compds. having neg. hormone and/or
antagonist activities)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L13 ANSWER 12 OF 18 MARPAT COPYRIGHT 2002 ACS

ACCESSION NUMBER: 129:82073 MARPAT

TITLE: Metal bisenolate complex catalysts for the
production of functionalized polymers

INVENTOR(S): Erker, Gerhard; Spather, Wolf; Fritze, Cornelia;
Mecking, Stefan

PATENT ASSIGNEE(S): Hoechst A.-G., Germany

SOURCE: Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 848015	A1	19980617	EP 1997-121287	19971204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
DE 19651442	A1	19980618	DE 1996-19651442	19961211
JP 10182713	A2	19980707	JP 1997-341072	19971211
CN 1187492	A	19980715	CN 1997-120872	19971211
BR 9705524	A	19990629	BR 1997-5524	19971211

PRIORITY APPLN. INFO.: DE 1996-19651442 19961211

AB Catalysts for the manuf. of polymers contg. functional groups
contain at least one metal bis(enolate) in which both enolate groups
are bonded to the metal by a covalent single bond and at least one
cocatalyst. Thus, lithium propen-2-olate and
biscyclopentadienylzirconium dichloride were reacted in THF to give
orange-red biscyclopentadienylzirconium bis(propene-2-olate) (I).
Polymn. of Me vinyl ketone in methylene chloride contg. I and
tris(pentafluorophenyl)borane yielded an amber-colored polymer.

09/590447

IC ICM C08F004-60
ICS C07F017-00
CC 35-3 (Chemistry of Synthetic High Polymers)
ST dicyclopentadienyl metal bispropenolate polymn catalyst; zirconium bisenolate complex polymn catalyst; hafnium bisenolate complex polymn catalyst; titanium bisenolate complex polymn catalyst; vinyl compd polymn catalyst
IT Polymerization catalysts
(prepn. of catalysts for manuf. of polymers contg. functional groups)
IT 209158-19-0P 209158-20-3P 209158-21-4P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(catalyst; prepn. of catalysts for manuf. of polymers contg. functional groups)
IT 1109-15-5, Tris(pentafluorophenyl)borane
RL: CAT (Catalyst use); USES (Uses)
(cocatalyst, contg. metal bisenolate complex; for manuf. of polymers contg. functional groups)
IT 1109-15-5DP, Tris(pentafluorophenyl)borane, reaction products with biscyclopentadienylzirconium bis(propene-2-olate) 25038-87-3P, Methyl vinyl ketone homopolymer 209158-20-3DP, reaction products with tris(pentafluorophenyl)borane
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of catalysts for manuf. of polymers contg. functional groups)
IT 1271-19-8, Biscyclopentadienyltitanium dichloride 1291-32-3, Biscyclopentadienylzirconium dichloride 12116-66-4, Biscyclopentadienylhafnium dichloride 67863-40-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; in prepn. of catalysts for manuf. of polymers contg. functional groups)

L13 ANSWER 13 OF 18 MARPAT COPYRIGHT 2002 ACS
ACCESSION NUMBER: 129:54376 MARPAT
TITLE: Preparation of 3H-1,2,4-triazol-3-one derivatives as fungicides and arthropodicides
INVENTOR(S): Brown, Richard James; Castro, Peter Paul; Chan, Dominic Ming-Tak; Daub, John Powell; Koether, Gerard Michael; Selby, Thomas Paul; et al.
PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA; Brown, Richard James; Castro, Peter Paul; Chan, Dominic Ming-Tak; Daub, John Powell; Koether, Gerard Michael
SOURCE: PCT Int. Appl., 171 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9823156	A1	19980604	WO 1997-US21944	19971125
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ,				

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TM

RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
CM, GA, GN, ML, MR, NE, SN, TD, TG

WO 9823155 A1 19980604 WO 1996-US18916 19961126

W: JP, KR

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE

AU 9854633 A1 19980622 AU 1998-54633 19971125

EP 944314 A1 19990929 EP 1997-948597 19971125

R: CH, DE, DK, ES, FR, GB, IT, LI, NL, IE

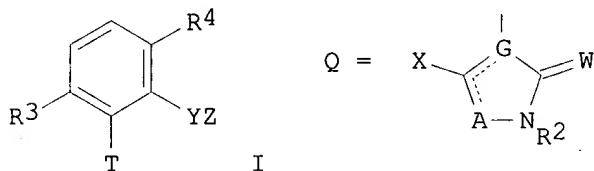
BR 9713415 A 20000418 BR 1997-13415 19971125

JP 2001506984 T2 20010529 JP 1998-524889 19971125

PRIORITY APPLN. INFO.:

WO 1996-US18916 19961126
US 1996-33614P 19961219
US 1997-48844P 19970606
WO 1997-US21944 19971125

GI



AB I [T = Q (X = OR1, SOMR1, halo; A = S, O, N, NR5, CF7; G = C, N; W = O, S, NH, etc.), R10sCH:CMcCO2R5; R10N:CMcCO2R5; etc.; R3 and R4 are each independently H or CH3, provided that R3 and R4 are not both H; Y = O, CH2O, a direct bond, etc.; Z = C1-10 alkyl or haloalkyl, (un)substituted Ph, arom. heterocyclyl, etc.], useful for controlling plant diseases caused by fungal plant pathogens or for controlling arthropods, were prep'd. E.g., 4-[2-[5-bromo-2-thienyl]oxy]-6-methylphenyl]-2,4-dihydro-5-methoxy-2-methyl-3H-1,2,4-triazol-3-one was prep'd. in several steps.

IC ICM A01N043-653
ICS A01N043-00; A01N037-00; C07D249-12; C07D401-12; C07D409-12;
C07D403-12; C07D405-12; C07D417-12; C07D261-12; C07D285-08;
C07D277-34; C07D239-52

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 5, 10

ST triazolone prepn fungicide arthropodicide

IT Acaricides
Fungicides
Insecticides

(prepn. of 3H-1,2,4-triazol-3-one derivs. as fungicides and arthropodicides)

IT 185686-21-9P 208513-69-3P 208513-70-6P 208513-71-7P
208513-72-8P 208513-73-9P 208513-74-0P 208513-75-1P
208513-76-2P 208513-77-3P 208513-78-4P 208513-79-5P
208513-80-8P 208513-81-9P 208513-82-0P 208513-83-1P
208513-84-2P 208513-85-3P 208513-86-4P 208513-87-5P
208513-88-6P 208513-89-7P 208513-90-0P 208513-91-1P
208513-92-2P 208513-93-3P 208513-94-4P 208513-95-5P

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208513-96-6P 208513-97-7P 208513-98-8P 208513-99-9P
208514-00-5P 208514-01-6P 208514-02-7P 208514-03-8P
208514-04-9P 208514-05-0P 208514-06-1P 208514-07-2P
208514-08-3P 208514-09-4P 208514-10-7P 208514-11-8P
208514-12-9P 208514-13-0P 208514-14-1P 208514-15-2P
208514-16-3P 208514-17-4P 208514-18-5P 208514-19-6P
208514-20-9P 208514-21-0P 208514-22-1P 208514-23-2P
208514-24-3P 208514-25-4P 208514-26-5P 208514-27-6P
208514-28-7P 208514-29-8P 208514-30-1P 208514-31-2P
208514-32-3P 208514-33-4P 208514-34-5P 208514-35-6P
208514-36-7P 208514-37-8P 208514-38-9P 208514-39-0P
208514-40-3P 208514-41-4P 208514-42-5P 208514-43-6P
208514-44-7P 208514-45-8P 208514-46-9P 208514-47-0P
208514-48-1P 208514-49-2P 208514-50-5P 208514-51-6P
208514-52-7P 208514-53-8P 208514-54-9P 208514-55-0P
208514-56-1P 208514-57-2P 208514-58-3P 208514-59-4P
208514-60-7P 208514-61-8P 208514-62-9P 208514-63-0P
208514-64-1P 208514-65-2P 208514-66-3P 208514-67-4P
208514-68-5P 208514-69-6P 208514-70-9P 208514-71-0P
208514-72-1P 208514-73-2P 208514-74-3P 208514-75-4P
208514-76-5P 208514-77-6P 208514-78-7P 208514-79-8P
208514-80-1P 208514-81-2P 208514-82-3P 208514-83-4P
208514-84-5P 208514-85-6P 208514-86-7P 208514-87-8P
208515-32-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 3H-1,2,4-triazol-3-one derivs. as fungicides and arthropodicides)

IT 407-14-7 620-13-3, .alpha.-Bromo-m-xylene 5330-98-3

50868-73-0, 2-Methoxy-6-methylaniline

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of 3H-1,2,4-triazol-3-one derivs. as fungicides and arthropodicides)

IT 186586-75-4P 186981-90-8P 203054-49-3P 203054-50-6P

203054-51-7P 208514-88-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of 3H-1,2,4-triazol-3-one derivs. as fungicides and arthropodicides)

L13 ANSWER 14 OF 18 MARPAT COPYRIGHT 2002 ACS

ACCESSION NUMBER:

128:154513 MARPAT

TITLE:

Method for stereoselective preparation of chiral metallocenes

INVENTOR(S):

Schottenberger, Herwig; Denifl, Peter; Mueller, Adrian Gallus; Bildstein, Benno; Jaintner, Peter; Ernst, Eberhard; Reussner, Jens

PATENT ASSIGNEE(S): PCD Petrochemie Danubia Deutschland G.m.b.H., Germany

SOURCE: Ger. Offen., 10 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19726454	A1	19980205	DE 1997-19726454	19970621
EP 816371	A1	19980107	EP 1996-110460	19960628

R: AT

PRIORITY APPLN. INFO.: EP 1996-110460 19960628

AB Chiral metallocenes of Ti, Zr, Hf, V, Nb, Ta, or lanthanides having C-, Si-, Ge-, or Sn-contg. bridges and (substituted) cyclopentadienyl or (substituted) indenyl .pi.-bonded groups, useful as catalysts for manuf. of stereoregular polyolefins, are manufd. by reaction of alkali-metal salts of the ligands contg. the bridges with the salts of the corresponding metals as a suspension in a mixt. of arom. or aliph. (halogenated) hydrocarbons with dialkyl ethers. Thus, lithiation of 2-methyl-4-phenylindene with MeLi in Et₂O, reaction of the Li salt with Me₂SiCl₂ in Et₂O, and reaction of the resulting intermediate ZrCl₄ in Et₂O-hexane mixt. gave a complex with racemic isomer mixt.-meso isomer ratio 60:40 and 100:0 before and after recrystn. from CH₂Cl₂.

IC ICM C07F017-00

ICS C08F010-00; C08F004-642; C08F004-68

ICA C07F007-08

CC 35-3 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 29, 67

ST chiral metallocene manuf ether hydrocarbon mixt; ethyl ether hexane solvent metallocene manuf; methylphenylindene methylsilyl zirconium complex manuf solvent; bridged chiral metallocene manuf solvent; stereoregular polyolefin manuf chiral metallocene catalyst

IT Sandwich compounds

RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(Group IVB element compds.; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Sandwich compounds

RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(Group VB element compds.; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Metallocene polymerization catalysts

(chiral; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Methyl aluminoxanes

RL: CAT (Catalyst use); USES (Uses)
(cocatalyst; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Aromatic hydrocarbons, uses

Chloro hydrocarbons

Hydrocarbons, uses

RL: NUU (Other use, unclassified); USES (Uses)
(ether mixts., complexation solvent; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Solvents

(ether-hydrocarbon mixts.; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Ethers, uses

RL: NUU (Other use, unclassified); USES (Uses)
(hydrocarbon mixts., complexation solvent; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Rare earth compounds

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RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(metallocenes; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Group VB element compounds
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(sandwich compds.; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Group IVB element compounds
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(sandwich; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Polyolefins
RL: IMF (Industrial manufacture); PREP (Preparation)
(stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT Chloroaromatic compounds
RL: NUU (Other use, unclassified); USES (Uses)
(stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT 56423-64-4P, 2-Methylindenyllithium 187470-50-4P 202649-75-0P
202660-49-9P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)
(catalyst precursor; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT 75-78-5 917-54-4, Methylolithium
RL: RCT (Reactant)
(catalyst precursor; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT 110-54-3, Hexane, uses
RL: NUU (Other use, unclassified); USES (Uses)
(ether mixts., complexation solvent; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT 60-29-7, Ethyl ether, uses 108-20-3, Diisopropyl ether
RL: NUU (Other use, unclassified); USES (Uses)
(hydrocarbon mixts., complexation solvent; stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT 153882-67-8P 187470-47-9P 202660-50-2P
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

IT 9003-07-0P, Polypropylene
RL: IMF (Industrial manufacture); PREP (Preparation)
(stereoselective prepn. of chiral metallocenes for olefin polymn. catalysts)

L13 ANSWER 15 OF 18 MARPAT COPYRIGHT 2002 ACS

ACCESSION NUMBER: 126:104078 MARPAT

TITLE: Stereoselective synthesis of chiral amines
(dolaphenine).

INVENTOR(S): Sun, Xiaoyong; Sachdeva, Yesh P.; Wilson, Donna
Kaye; Gabriel, Richard L.; Ram, Siya

PATENT ASSIGNEE(S): Pharm-Eco Laboratories, Inc., USA; Sun,
Xiaoyong; Sachdeva, Yesh P.; Wilson, Donna Kaye;
Gabriel, Richard L.; Ram, Siya

SOURCE: PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9639399	A1	19961212	WO 1996-US9140	19960606
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
CA 2224121	AA	19961212	CA 1996-2224121	19960606
AU 9659879	A1	19961224	AU 1996-59879	19960606
AU 706334	B2	19990617		
EP 846107	A1	19980610	EP 1996-917228	19960606
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11507059	T2	19990622	JP 1996-501531	19960606
US 5750713	A	19980512	US 1997-916721	19970818
US 6020495	A	20000201	US 1997-986834	19971208

PRIORITY APPLN. INFO.:

AB R1CH(NH2)R2 (R1 = heterocyclyl; R2 = alkyl, aryl, heterocyclyl), were prep'd. by (a) contacting norephedrine with BH3 complexed with an aprotic solvent to form a reducing soln. for stereoselectively reducing stereoisomers of oximes, and (b) contacting the soln. with R1C(:NOR3)R2 (R3 = alkyl, aryl; R1, R2 as above). Thus, benzyl thiazolyl ketone anti-O-methyloxime (prepn. given) was added to a soln. prep'd. from (+)-norephedrine and BH3 in THF and the mixt. was stirred 16 h at room temp. and refluxed 4 h to give 60% (S)-dolaphenine.

IC ICM C07D277-28
ICS C07C209-40

CC 28-7 (Heterocyclic Compounds (More Than One Hetero Atom))

ST amine chiral prepn; dolaphenine chiral prepn; oxime stereoselective redn norephedrine borane

IT Amines, preparation
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(chiral, redn. of oximes with norephedrine/borane;
stereoselective synthesis of chiral amines (dolaphenine))

IT Stereoselective reduction
(redn. of oximes with norephedrine/borane; stereoselective synthesis of chiral amines (dolaphenine))

IT 185986-59-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(racemic; stereoselective synthesis of chiral amines (dolaphenine))

IT 130199-65-4P, (S)-Dolaphenine
RL: IMF (Industrial manufacture); PUR (Purification or recovery);
RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of chiral amines (dolaphenine))

IT 144774-97-0P, (R)-Dolaphenine

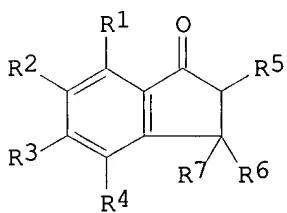
09/590447

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of chiral amines (dolaphenine))
IT 103-80-0, Phenylacetyl chloride 79265-30-8, 2-
Trimethylsilylthiazole
RL: RCT (Reactant)
(stereoselective synthesis of chiral amines (dolaphenine))
IT 144774-95-8P 144774-99-2P, Benzyl 2-thiazolyl ketone
144775-01-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of chiral amines (dolaphenine))
IT 133565-36-3P 144775-04-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of chiral amines (dolaphenine))

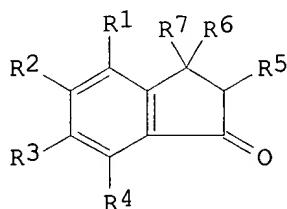
L13 ANSWER 16 OF 18 MARPAT COPYRIGHT 2002 ACS

ACCESSION NUMBER: 121:35034 MARPAT
TITLE: One-step synthesis of substituted indanones
INVENTOR(S): Weisse, Laurent; Strutz, Heinz
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

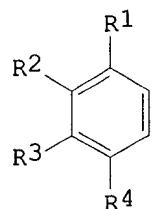
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 587107	A1	19940316	EP 1993-114314	19930907
EP 587107	B1	19960814		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
AT 141250	E	19960815	AT 1993-114314	19930907
ES 2093342	T3	19961216	ES 1993-114314	19930907
FI 9303955	A	19940312	FI 1993-3955	19930909
CA 2105915	AA	19940312	CA 1993-2105915	19930910
AU 9346260	A1	19940317	AU 1993-46260	19930910
AU 667947	B2	19960418		
ZA 9306693	A	19940429	ZA 1993-6693	19930910
US 5360936	A	19941101	US 1993-120104	19930910
RU 2110510	C1	19980510	RU 1993-45021	19930910
JP 06192163	A2	19940712	JP 1993-227525	19930913
DE 1992-4230373 19920911				
PRIORITY APPLN. INFO.:				
OTHER SOURCE(S):	CASREACT 121:35034			
GI				



I



II



III

AB The title compds. (I and II; R1-R7 = H, C1-20 alkyl, C6-14 aryl, C1-10 alkoxy, C2-10 alkenyl, C7-20 arylalkyl, C6-10 haloaryl, C2-10 alkynyl, etc.) are prep'd. in high yield and with a variety of substituents not readily available by prior-art synthetic processes, are prep'd. by the cyclocondensation reaction of benzene III with [R6(R7)C:C(R5)CO]2O, or with the corresponding alkenoyl fluoride, in the presence of liq., anhyd. HF and BF3. Thus, biphenyl was cyclocondensed with methacrylic anhydride in the presence of HF and BF3 over 2 h at 50.degree., producing 2-methyl-5-phenylindan-1-one in 99% yield (94% selectivity).

IC ICM C07C045-46
ICS C07C049-67; C07C049-683; C07C049-697; C07C049-675

CC 25-23 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

ST methacrylic anhydride cyclocondensation biphenyl;
methylphenylindanone prep'n cyclocondensation biphenyl methacrylic;
indanone methylphenyl; borane fluoride cyclocondensation catalyst;
hydrogen fluoride cyclocondensation catalyst

IT Cyclocondensation reaction catalysts
(boron trifluoride-hydrogen fluoride, for prep'n. of substituted indanones from benzenes and methacrylic anhydrides or methacryloyl fluorides)

IT Cyclocondensation reaction
(of benzene derivs. with methacrylic anhydride derivs. or methacryloyl fluorides in presence of hydrogen fluoride and boron trifluoride)

IT 41201-58-5P 150096-51-8P 150096-57-4P 153440-08-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(1-step prep'n. of, catalysts for)

IT 7664-39-3, Hydrogen fluoride, uses
RL: CAT (Catalyst use); USES (Uses)
(catalysts, with boron trifluoride, for cyclocondensation reaction of methacrylic anhydrides or methacryloyl fluorides with benzenes in prep'n. of substituted indanones)

IT 7637-07-2, Boron trifluoride, uses
RL: CAT (Catalyst use); USES (Uses)
(catalysts, with hydrogen fluoride, for cyclocondensation of benzenes with methacrylic anhydrides or methacryloyl fluoride in prep'n. of substituted indanones)

IT 91-20-3, Naphthalene, reactions 92-52-4, Biphenyl, reactions
462-06-6, Fluorobenzene
RL: RCT (Reactant)
(cyclocondensation reaction of, with methacrylic anhydride in prep'n. of substituted indanones, catalysts for)

IT 760-93-0, Methacrylic anhydride
RL: RCT (Reactant)
(cyclocondensation reaction of, with naphthalin, substituted indanones from,)

L13 ANSWER 17 OF 18 MARPAT COPYRIGHT 2002 ACS
ACCESSION NUMBER: 119:203149 MARPAT
TITLE: Preparation of trifluoromethyl ketones
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Ger. Offen., 13 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4201435	A1	19930722	DE 1992-4201435	19920121
WO 9314054	A1	19930722	WO 1993-EP94	19930115
W: AU, CA, HU, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9334104	A1	19930803	AU 1993-34104	19930115
AU 661560	B2	19950727		
EP 623103	A1	19941109	EP 1993-902218	19930115
EP 623103	B1	19970903		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, PT				
JP 07506337	T2	19950713	JP 1993-512154	19930115
IL 104440	A1	19980310	IL 1993-104440	19930119
HU 67802	A2	19950529	HU 1994-2140	19930121
US 5608062	A	19970304	US 1994-256523	19940921
DE 1992-4201435 19920121				
WO 1993-EP94 19930115				
PRIORITY APPLN. INFO.:				

OTHER SOURCE(S): CASREACT 119:203149

AB RCOCF₃ [R = (substituted) aliph. hydrocarbyl, arom. hydrocarbyl] were prep'd. by oxidn. of RCH(OH)CF₃ by YOnH (Y = Cl, Br, iodo; n = 1-4) or salts thereof. Thus, PhCH(OH)CF₃ were stirred 6 h at room temp. with 12% aq. NaOCl in CH₂Cl₂ contg. Bu₄NHSO₄ to give 75% PhCOCF₃.

IC ICM C07D213-64
 ICS C07D213-61; C07D213-643; C07D333-28; C07D521-00; C07D247-00;
 C07D277-22; C07C049-80; C07C049-84; C07C049-327
 CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 27
 ST ketone trifluoromethyl; fluoromethyl ketone; aryltrifluoroethanol
 oxidn
 IT Ketones, preparation
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (trifluoromethyl, prepn. of, by oxidn. of trifluoroethanols)
 IT 340-04-5, 2,2,2-Trifluoro-1-phenylethanol 446-65-1 35304-69-9
 67851-11-0 76911-73-4 107018-38-2 110628-69-8 128816-77-3
 138624-99-4 150698-77-4 150698-78-5 150698-79-6 150698-80-9
 150698-81-0 150698-82-1 150698-83-2
 RL: RCT (Reactant)
 (oxidn. of)
 IT 394-59-2P 434-45-7P 6302-04-1P, Trifluoromethylcyclohexyl ketone
 16184-89-7P 30724-22-2P 33284-21-8P, 3-Trifluoroacetylpyridine
 34773-51-8P 67851-10-9P 74853-66-0P 107713-64-4P
 110628-68-7P 150698-72-9P 150698-73-0P 150698-74-1P
 150698-75-2P 150698-76-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, by oxidn. of trifluoroethanol)

L13 ANSWER 18 OF 18 MARPAT COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 114:42773 MARPAT
 TITLE: Preparation of dithianes as pesticides and drugs
 INVENTOR(S): Casida, John Edward; Elliott, Michael; Parkin, Donald
 PATENT ASSIGNEE(S): Wellcome Foundation Ltd., UK; University of California, Oakland
 SOURCE: Eur. Pat. Appl., 30 pp.
 CODEN: EPXXDW

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 372870	A2	19900613	EP 1989-312588	19891201
EP 372870	A3	19910116		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 02243686	A2	19900927	JP 1989-315117	19891204
GB 1988-28326 19881205				

PRIORITY APPLN. INFO.:

GI For diagram(s), see printed CA Issue.
 AB The title compds. [I; R1 = H, Me, Et; R2 = ethynyl, (cyano-, carboalkoxy-, HO-, halo-, etc.-substituted) hydrocarbyl, (substituted) aryl; R3, R5 = H, (substituted) Me, Et; R3R5 = bond; R4, R6 = H, (substituted) hydrocarbyl, Ph, PhCH₂; R3R5 = atoms to complete a (substituted) C3-9 (bridged) ring system; not all of R3-R6 can be H, when 3 of R3-R6 = H, the other .noteq. Me; m, n = 0-2], were prep'd. Thus, MeCH(SH)CH(SH)Me, 4-BrC₆H₄CHO, and H₂CO were stirred 18 h at room temp. to give title compd. II as a mixt. of 2 isomers. Several I were active against *Musca domestica*, *Plutella xylostella*, etc., at <1000 ppm.
 IC ICM C07D339-06
 ICS A01N043-28
 CC 28-5 (Heterocyclic Compounds (More Than One Hetero Atom))
 Section cross-reference(s): 1, 5
 ST dithiolane prep'n pesticide; insecticide dithiolane; acaricide dithiolane; nematocide dithiolane; ectoaparasiticide dithiolane; drug dithiolane
 IT Acaricides
 Insecticides
 Nematocides
 Pesticides
 (dithiolanes)
 IT Parasiticides
 (ecto-, dithiolanes)
 IT 94-60-0, Dimethyl cyclohexane-1,4-dicarboxylate
 RL: RCT (Reactant)
 (acetylation of)
 IT 4532-64-3, 2,3-Butanedithiol
 RL: RCT (Reactant)
 (cyclocondensation of, with bromobenzaldehyde)
 IT 1122-91-4, 4-Bromobenzaldehyde 63697-96-1, 4-Ethynylbenzaldehyde
 RL: RCT (Reactant)
 (cyclocondensation of, with butanedithiol)
 IT 23657-28-5
 RL: RCT (Reactant)
 (cyclocondensation of, with heptynal)
 IT 534-18-9, Sodium trithiocarbonate
 RL: RCT (Reactant)
 (cyclocondensation of, with pentanediol dimesylate)
 IT 130431-68-4
 RL: RCT (Reactant)
 (desilylation of)
 IT 5343-92-0, Pentane-1,2-diol
 RL: RCT (Reactant)
 (mesylation of, in prep'n. of dithiolane deriv.)

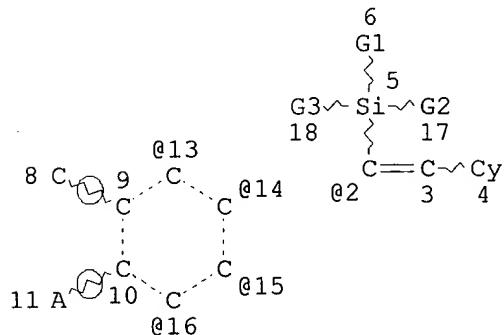
09/590447

IT 130431-67-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and redn. of)
IT 130431-66-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and sulfuration of)
IT 120077-74-9P 120077-75-0P, Dimethyl 1-acetylhexane-1,4-dicarboxylate
120077-76-1P, Methyl 4-acetylhexanecarboxylate
120077-77-2P 120077-78-3P 120077-79-4P, 4-Ethynylcyclohexylmethanol 130431-63-9P, 1,2-Pentanedithiol
130431-64-0P 130431-65-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for dithiolane)
IT 130431-38-8P 130431-39-9P 130431-40-2P 130431-41-3P
130431-42-4P 130431-43-5P 130431-44-6P 130431-45-7P
130431-46-8P 130431-47-9P 130431-48-0P 130431-49-1P
130431-51-5P 130431-52-6P 130431-53-7P 130431-54-8P
130431-55-9P 130431-56-0P 130431-57-1P 130431-58-2P
130431-59-3P 130431-60-6P 130431-61-7P 130431-62-8P
130462-71-4P 130462-72-5P 130462-73-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as pesticide and drug)
IT 67100-10-1, 6-Heptynal
RL: RCT (Reactant)
(reaction of, in prepn. of dithiolanes)

FILE 'MARPATPREV' ENTERED AT 11:58:59 ON 23 MAY 2002

L5

STR



VAR G1=AK/CB
VAR G2=AK/CB
VAR G3=AK/CB
VPA 2-13/14/15/16 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

ATTRIBUTES SPECIFIED AT SEARCH-TIME:
MLEVEL IS CLASS ON RING NODES AND RING GROUPS

09/590447

MLEVEL IS CLASS ON CHAIN NODES AND CHAIN GROUPS
ECLEVEL IS LIM ON ALL NODES
ALL RING(S) ARE ISOLATED

L14

0 SFA FILE=MARPAT.PREV SSS FUL L5 (MODIFIED ATTRIBUTES)

100.0% PROCESSED 61 ITERATIONS
SEARCH TIME: 00.00.02

0 ANSWERS

FILE 'HOME' ENTERED AT 11:59:42 ON 23 MAY 2002